Service Manual

Telephone Equipment

Call Display Compatible

DECT
6.0

Model No. KX-TG1061CM
KX-TGA106CM

Expandable Digital Corded/Cordless Answering System

M: Metallic Grey Version
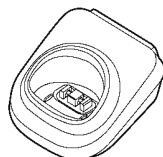(for Canada)
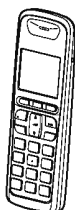
KX-TGA106CM
(Cordless Handset)

KX-TG1061CM
(Base Unit)

(Charger Unit)

Configuration for each model

Model No	Base Unit	Handset	Charger Unit	Expandable
KX-TG1061	1 (TG1061)	1 (TGA106)	1	Up to 6
KX-TGA106*		1 (TGA106)	1	

*KX-TGA106 is also an optional accessory, which contains a handset and a charger.

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.

IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are important for safety. These parts are marked by ⚠ in the Schematic Diagrams, Circuit Board Diagrams, Exploded Views and Replacement Parts List. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire or other hazards. Do not modify the original design without permission of manufacturer.

IMPORTANT INFORMATION ABOUT LEAD FREE, (PbF), SOLDERING

If lead free solder was used in the manufacture of this product, the printed circuit boards will be marked PbF. Standard leaded, (Pb), solder can be used as usual on boards without the PbF mark. When this mark does appear, please read and follow the special instructions described in this manual on the use of PbF and how it might be permissible to use Pb solder during service and repair work.

- When you note the serial number, write down all 11 digits. The serial number may be found on the bottom of the unit.
- The illustrations in this Service Manual may vary slightly from the actual product.

Note for TABLE OF CONTENTS:

Because sections 4, 5 and 6 of this manual are the extracts from the operating instructions for this model, they are subject to change without notice. You can download and refer to the original operating instructions on TSN Server for further information.

TABLE OF CONTENTS

1 Safety Precautions

1.1. For Service Technicians

• **Repair service shall be provided in accordance with repair technology information such as service manual so as to prevent fires, injury or electric shock, which can be caused by improper repair work**.
  1. When repair services are provided, neither the products nor their parts or members shall be remodeled.
  2. If a lead wire assembly is supplied as a repair part, the lead wire assembly shall be replaced.
  3. FASTON terminals shall be plugged straight in and unplugged straight out.

• **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.

2 Warning

2.1. Battery Caution

Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.

```
ATTENTION
IL Y A RISQUE D'EXPLOSION SI LA BATTERIE
EST REMPLACÉE PAR UNE BATERIE DE TYPE
INCORRECT.
MATTRE AU REBUT LES BATTERIES USAGÉES
CONFORMÉMENT AUX INSTRICTIONS.
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3 Specifications

■ **Standard:**
DECT 6.0 (Digital Enhanced Cordless Telecommunications 6.0)

■ **Number of channels:**
60 Duplex Channels

■ **Frequency range:**
1.92 GHz to 1.93 GHz

■ **Duplex procedure:**
TDMA (Time Division Multiple Access)

■ **Channel spacing:**
1,728 kHz

■ **Bit rate:**
1,152 kbit/s

■ **Modulation:**
GFSK (Gaussian Frequency Shift Keying)

■ **RF transmission power:**
115 mW (max.)

■ **Voice coding:**
ADPCM 32 kbit/s

	Base Unit	Cordless Handset	Charger
Power source	AC Adaptor (PQLV219Z, 120 V AC, 60 Hz)	Rechargeable Ni-MH battery AAA (R03) size (1.2 V 550 mAh)	AC Adaptor (PQLV219Z, 120 V AC, 60 Hz)
Receiving Method	Super Heterodyne	Super Heterodyne	——
Oscillation Method	PLL synthesizer	PLL synthesizer	——
Detecting Method	Quadrature Discriminator	Quadrature Discriminator	——
Modulation Method	Frequency Modulation	Frequency Modulation	——
ID Code	40 bit	40 bit	——
Ringer Equivalence No. (REN)	0.1	——	——
Dialing Mode	Tone (DTMF)/Pulse	Tone (DTMF)/Pulse	——
Redial	Up to 48 digits	Up to 48 digits	——
Speed Dialer	Up to 24 digits (Phonebook)	Up to 24 digits (Phonebook)	——
Power Consumption	Standby: Approx. 1.3 W Maximum: Approx. 2.0 W	11 days at Standby, 5 hours at Talk	Standby: Approx. 0.1 W, Maximum: Approx. 3.3 W
Operating Conditions	0 ˚C - 40 ˚C (32 ˚F – 104 ˚F) 20 % – 80 % relative air humidity (dry)	0 ˚C - 40 ˚C (32 ˚F – 104 ˚F) 20 % – 80 % relative air humidity (dry)	0 ˚C - 40 ˚C (32 ˚F – 104 ˚F) 20 % – 80 % relative air humidity (dry)
Dimensions (H x W x D)	Approx. 68mm × 214 mm × 175 mm	Approx. 158 mm × 48 mm × 30 mm	Approx. 52 mm × 75 mm × 88 mm
Mass (Weight)	Approx. 450 g	Approx. 150 g	Approx. 60 g

Note:
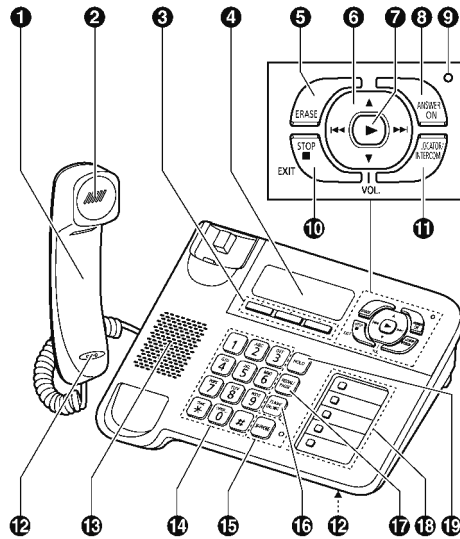• Design and specifications are subject to change without notice.

Note for service:
• Operation range: Up to 300 m outdoors, Up to 50 m indoors, depending on the condition.
• Optional headset: RP-TCA86, RP-TCA94, RP-TCA95
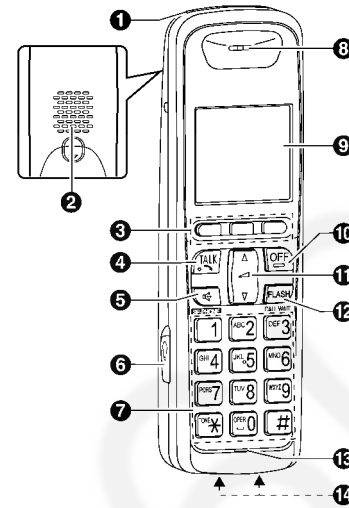
4 Location of Controls and Components

4.1. Controls

4.1.1. Base Unit

❶ Corded handset
❷ Receiver
❸ Soft keys
❹ Display
❺ 【ERASE】
❻ Navigator key (【▲】/【▼】)
　VOL.: Volume (【▲】/【▼】)
　Repeat/Skip (【I◄◄】/【►►I】)
❼ 【►】 (Play)
　Message indicator
❽ 【ANSWER ON】
❾ ANSWER ON indicator
❿ 【■】 (STOP) (EXIT)
⓫ 【LOCATOR】【INTERCOM】
⓬ Microphone
⓭ Speaker
⓮ Dial keypad (【✱】: TONE)
⓯ 【SP-PHONE】 (Speakerphone)
　SP-PHONE indicator
⓰ 【FLASH】【CALL WAIT】
⓱ 【REDIAL】【PAUSE】
⓲ Speed dial buttons
⓳ 【HOLD】

4.1.2. Cordless Handset

❶ Charge indicator
　Ringer indicator
　Message indicator
❷ Speaker
❸ Soft keys
❹ 【✆】 (TALK)
❺ 【◁】 (SP-PHONE: Speakerphone)
❻ Headset jack
❼ Dial keypad (【✱】: TONE)
❽ Receiver
❾ Display
❿ 【OFF】
⓫ Navigator key (【▲】/【▼】)
　◢: Volume (【▲】/【▼】)
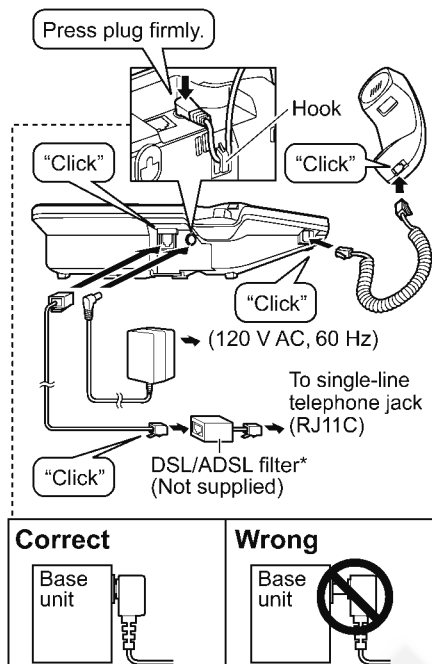⓬ 【FLASH】【CALL WAIT】
⓭ Microphone
⓮ Charge contacts

5 Installation Instructions

5.1. Setting up

5.1.1. Connections

- Use only the supplied Panasonic AC adaptor PQLV219Z.

■ **Base unit**

Press plug firmly.
Hook
"Click"
"Click"
"Click"
(120 V AC, 60 Hz)
To single-line telephone jack (RJ11C)
"Click"
DSL/ADSL filter* (Not supplied)

Correct	Wrong
Base unit	Base unit

*For DSL/ADSL service users

■ **Charger**

Hooks
(120 V AC, 60 Hz)
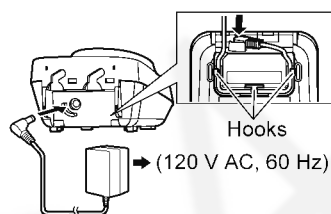
Note:
- The AC adaptor must remain connected at all times. (It is normal for the adaptor to feel warm during use.)
- The AC adaptor should be connected to a vertically oriented or floor-mounted AC outlet. Do not connect the AC adaptor to a ceilingmounted AC outlet, as the weight of the adaptor may cause it to become disconnected.

During a power failure

The base unit will work as a standard telephone using power from the telephone line, so you can make and answer outside calls with the corded handset. However, this operation may not work properly depending on area or telephone line's condition. The base unit speakerphone and the cordless handset will not function during a power failure.

5.2. Battery

5.2.1. Battery Installation

- USE ONLY Ni-MH batteries AAA (R03) size.
- Do NOT use Alkaline/Manganese/Ni-Cd batteries.
- Confirm correct polarities ($\oplus$, $\ominus$).

Rechargeable Ni-MH ONLY

Note:
- Use the supplied rechargeable batteries. For replacement, we recommend using the Panasonic rechargeable batteries HHR-4DPA.
- Wipe the battery ends ($\oplus$, $\ominus$) with a dry cloth.
- Avoid touching the battery ends ($\oplus$, $\ominus$) or the unit contacts.

Important:
- If the cordless handset does not automatically turn on after installing/replacing batteries, place the handset on the charger.

Attention:

A nickel metal hydride battery that is recyclable powers the product you have purchased.
Please call 1-800-8-BATTERY (1-800-822-8837) for information on how to recycle this battery.

Note for service:

The battery strength may not be indicated correctly if the battery is disconnected and connected again, even after it is fully charged. In that case, by recharging the battery as mentioned above, you will get a correct indication of the battery strength.

5.2.2. Battery Charge

Charge for about 7 hours.

• When the batteries are fully charged, the charge indicator goes off.

Confirm "**Charging**" is displayed.
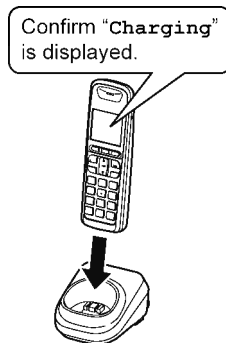
Note:

• It is normal for the handset to feel warm during charging.
• Clean the charge contacts of the handset and charger with a soft and dry cloth.

  Clean if the unit is exposed to grease, dust, or high humidity.

5.2.3. Battery Level

Icon	Battery level
▤	High
▤	Medium
▢	Low
▢	Needs charging.
▢	Empty

Note:

• The batteries need to be charged if the cordless handset beeps while you are engaged in a call or operating the answering system remotely.

5.2.4. Panasonic Ni-MH Battery Performance (supplied batteries)

Operation	Operating time
In continuous use	12 hours max.
Not in use (standby)	6 days max.

Note:

• Actual battery performance depends on a combination of how often the handset is in use and how often it is not in use (standby).
• Even after the handset is fully charged, the handset can be left on the charger without any ill effect on the batteries.
• The battery level may not be displayed correctly after you replace the batteries. In this case, place the handset on the charger and let it charge for at least 7 hours.

6 Operating Instructions

6.1. Programmable settings

You can customize the unit by programming the following features.

To access the features, there are 2 methods:

- scrolling through the display menus.

- using the direct commands.

  • Direct command is the main method used in this service manual.

6.1.1. Programming by scrolling through the display menus

🖦 Base unit / ✐ Cordless handset

1 【MENU】

2 Press 【▾】 or 【▴】 to select the desired main menu. ⟶ 【SELECT】

3 Press 【▾】 or 【▴】 to select the desired item in sub-menu 1. ⟶ 【SELECT】
  • In some cases, you may need to select from sub-menu 2. ⟶ 【SELECT】

4 Press 【▾】 or 【▴】 to select the desired setting. ⟶ 【SAVE】
  • This step may vary depending on the feature being programmed.
  • To exit the operation, press 【■】 (EXIT) on the base unit or 【OFF】 on the handset.

Base unit

Main menu	Sub-menu 1	Sub-menu 2
Caller list ⇥)	—	—
Set answering ⊙	Screen call	—
Initial setting ⊙═⊂	Ringer setting	Ringer volume
		Ringer tone
		Night mode — On / Off — Start / End
	Call block*1	—
	LCD contrast	—
	Display language	—
Customer support ?🌐	—	—

*1 If you program these settings using the base unit, you do not need to program the same item using a handset.

Cordless Handset

Main menu	Sub-menu 1	Sub-menu 2
Caller list ➔)	—	—
Answering device 🔊	Play new msg.	—
	Play all msg.	—
	Erase all msg.[*1]	—
	Greeting	Record greeting[*1]
		Check greeting
		Pre-recorded[*1]
	Settings	Ring count[*1]
		Recording time[*1]
		Remote code[*1]
		Screen call
	Answer on[*1]	—
	Answer off[*1]	—
Intercom ·)))	—	—
Initial setting	Ringer setting	Ringer volume
		Ringer tone
		Night mode — On / Off — Start / End
	Set date / time	Date and time[*1]
		Alarm
		Time adjust[*1]
	Call block[*1]	—
	Message alert	—
	LCD contrast	—
	Key tone	—
	Auto talk	—
	Set tel line	Set dial mode[*1]
		Set flash time[*1]
		Set line mode[*1]
		VM tone detect[*1]
	Registration	Register handset
		Deregistration
	Change language	Display
		Voice prompt[*1]
Customer support ?🌐	—	—

*1 If you program these settings using one of the handsets, you do not need to program the same item using another unit.

10

6.1.2. Programming using the Direct Commands

1 [MENU] → [♯]

2 Enter the desired feature code.

3 [▼]/[▲]: Select the desired setting. → [SAVE]
  - This step may vary depending on the feature being programmed.
  - To exit the operation, press [■](EXIT) on the base unit or [OFF] on the cordless handset.

Note:
- The operating unit column shows the unit(s) that can be used to program the item.
  - 📠 : Only the base unit can program the item.
  - 📱 : Only the cordless handset can program the item.
  - 📠/📱 : Both the base unit and cordless handset can program the item.
- In the following table, < > indicates the default settings.

Operating unit	Feature	Feature code	Setting	System setting[*1]
📱	Alarm	[7][2][0]	<Off> Once Daily	–
📱	Answer off	[3][2][8]	–	●
📱	Answer on	[3][2][7]	–	●
📱	Auto talk[*2]	[2][0][0]	On <Off>	–
📠/📱	Block w/o num. (Block calls without phone number)	[2][4][0]	On <Off>	●
📠/📱	Call block	[2][1][7]	–	●
📠/📱	Caller list	[2][1][3]	–	–
📱	Check greeting	[3][0][3]	–	–
📠/📱	Customer support[*3]	[6][8][0]	–	–
📱	Date and time	[1][0][1]	–	●
📱	Deregistration	[1][3][1]	–	–
📠	Display language	[1][1][0]	<English> Français	–
📱	Display (Change language)			
📱	Erase all msg. (msg.: messages)	[3][2][5]	–	●
📱	Intercom	[2][7][4]	–	–
📱	Key tone[*4]	[1][6][5]	<On> Off	–
📠/📱	LCD contrast (Display contrast)	[1][4][5]	Level 1–6 <3>	–

Operating unit	Feature	Feature code	Setting	System setting[1]
📞	Message alert	[3][4][0]	On <Off>	–
📞	Play all msg. (msg.: messages)	[3][2][4]	–	–
📞	Play new msg. (msg.: messages)	[3][2][3]	–	–
📞	Pre-recorded (Reset to pre-recorded greeting)	[3][0][4]	–	●
📞	Record greeting	[3][0][2]	–	●
📞	Recording time	[3][0][5]	1min <3min> Greeting only	●
📞	Register handset	[1][3][0]	–	–
📞	Remote code	[3][0][6]	<111>	●
📞	Ring count	[2][1][1]	Toll saver 2–7 rings <4>	●
📠/📞	Ringer tone[5], [6]	[1][6][1]	**Base unit:** Tone <1>–6 **Handset**[7]: Tone <1>–5 Melody 1–10	–
📠/📞	Ringer volume[8]	[1][6][0]	**Base unit:** Level 1–<3>, Off **Handset:** Level 1–<6>, Off	–
📠/📞	Screen call	[3][1][0]	<On> Off	–
📞	Set dial mode	[1][2][0]	<Tone> Pulse	●
📞	Set flash time[9]	[1][2][1]	80ms 90ms 100ms 110ms 160ms 200ms 250ms 300ms 400ms 600ms <700ms> 900ms	●
📞	Set line mode[10]	[1][2][2]	A <B>	●
📠/📞	Night mode (On/Off)	[2][3][8]	On <Off>	–
📠/📞	Night mode (Start/End)	[2][3][7]	<11:00 PM/06:00 AM>	–
📞	Time adjust[11] (Call Display subscribers only)	[2][2][6]	<Caller ID auto> Manual	●
📞	VM tone detect (VM: Voice mail)	[3][3][2]	<On> Off	●
📞	Voice prompt (Change language)	[1][1][2]	<English> Français	●

*1 If "System setting" column is checked, you do not need to program the same item using another unit.

*2 If you subscribe to a Call Display service and want to view the caller's information after lifting up the handset to answer a call, turn off this feature.

*3 The base unit and cordless handset can display the Internet address where you can download the operating instructions or get further information for this product, using your computer.

*4 Turn this feature off if you prefer not to hear key tones while you are dialing or pressing any keys, including confirmation tones and error tones.

*5 If you subscribe to a distinctive ring service, select a tone (base unit: tone 1 to 6/cordless handset: tone 1 to 5). If you select a melody, you cannot distinguish lines by their ringers.

*6 If you select one of the melody ringer tones, the ringer tone continues to play for several seconds even if the caller has already hung up. You may either hear a dial tone or no one on the line when you answer the call.

*7 The preset tones and melodies in this product are used with permission of © 2007 Copyrights Vision Inc.

*8 When the ringer volume is turned off, ✗ is displayed and the base unit and/or cordless handset do not ring for outside calls.

   However even when the ringer volume is set to off:
   – the base unit rings at the low level for intercom calls.
   – the cordless handset rings at the lowest level for alarm and intercom calls, and rings at the highest level for paging.

*9 The flash time depends on your telephone exchange or host PBX. Contact your PBX supplier if necessary.

*10 Generally, the line mode setting should not be adjusted. If "New Voice Mail" is not displayed, even when the message indication service is available, you need to change the line mode to "A".

*11 This feature allows the unit to automatically adjust the date and time setting when caller information is received. To use this feature, set the date and time first.

6.2. Registering a Cordless Handset to a Base Unit

The supplied cordless handset and base unit are pre-registered. If for some reason the cordless handset is not registered to the base unit, re-register the cordless handset.

1 Cordless Handset:
[MENU] → [♯][1][3][0]

2 Base unit:
Press and hold [LOCATOR] for 5 about seconds until the registration tone sounds.
● If all registered cordless handsets start ringing, press the same button to stop. Then repeat from step1.
● The next step must be completed within 90 seconds.

3 Cordless Handset:
Press [OK], then wait until a long beep sounds.

Note:
● When you purchase an additional cordless handset, refer to the additional cordless handset's installation manual for registration.

6.2.1. Deregistering a Cordless Handset

A cordless handset can cancel its own registration (or the registration of another cordless handset) that is stored to the base unit.

This allows the cordless handset to end its wireless connection with the system.

✎ **Cordless Handset**

1 [MENU] → [♯][1][3][1]

2 [3][3][5] → [OK]

3 Select the cordless handset you want to cancel by pressing the desired cordless handset(s) number.
● The selected cordless handset number(s) flashes.
● To cancel a selected cordless handset number, press the number again. The number will stop flashing.

4 [OK] → [▼]/[▲]: "Yes" → [SELECT]
● When you cancel a different cordless handset than the one you are now using, press [OFF] to exit.

6.3. Copying Phonebook Entries

You can copy phonebook entries from the base unit to a cordless handset , and vice versa.

Important:
 • Groups (including their names and ringer tones) are not copied.
 • You cannot make phonebook copy between cordless handsets directly.
   However it is possible by first copying a cordless handset's phonebook entries to the base unit, then copying the base unit's phonebook entries to another cordless handset.

6.3.1. Copying All Entries

> 📖 **Base unit**

1 【📖】 → 【MENU】
2 【▼】/【▲】: "Copy all" → 【SELECT】
3 Enter the handset number to copy to.
   • When all entries have been copied, "Completed" is displayed.
4 【■】 (EXIT)

> ✎ **Cordless handset**

1 【📖】 → 【MENU】
2 【▼】/【▲】: "Copy all to base" → 【SELECT】
   • When all entries have been copied, "Completed" is displayed.
3 【OFF】

6.4. Dialing Mode

If you cannot make calls, change this setting according to your telephone line service.
The default setting is **"Tone"**.
"Tone": For tone dial service.
"Pulse": For rotary/pulse dial service.

> ✎ **Cordless handset**

1 【MENU】 → 【♯】【1】【2】【0】
2 【▼】/【▲】: Select the desired setting.
3 【SAVE】 → 【OFF】

6.5. Error Messages

If the unit detects a problem, one of the following messages is shown on the display.

Display message	Cause/solution
Busy	• The called unit is in use. • Other units are in use and the system is busy. Try again later. • The cordless handset you are using is too far from the base unit. Move closer and try again. • The cordless handset's registration may have been canceled. Re-register the cordless handset.
Check tel line	• The supplied telephone line cord has not been connected yet or not connected properly. Check the connections.
Error!!	• Recording was too short. Try again.
Failed	• Phonebook copy failed. Confirm the other unit (the receiver) is in standby mode and try again.
Incomplete	• Phonebook copy is incomplete. The receiver's phonebook memory is full. Erase the unnecessary phonebook entries from the other unit (the receiver) and try again.
Memory full	• The phonebook memory is full. Erase unnecessary entries. • Message memory is full. Erase unnecessary messages.
Messages full	• Message memory is full. Erase unnecessary messages.
No link. Reconnect base AC adaptor.	• The cordless handset has lost communication with the base unit. Move closer to the base unit and try again. • Unplug the base unit's AC adaptor to reset the unit. Reconnect the adaptor and try again. • The cordless handset's registration may have been canceled. Re-register the cordless handset.
Requires subscription to Caller ID.	• You must subscribe to a Call Display service. Once you receive caller information after subscribing to a Call Display service, this message will not be displayed.
Use rechargeable battery.	• A wrong type of battery such as Alkaline or Manganese was inserted. Use only the rechargeable Ni-MH batteries.

6.6. Troubleshooting

If you still have difficulties after following the instructions in this section, disconnect the base unit's AC adaptor, then reconnect the base unit's AC adaptor. Remove the batteries from the cordless handset, and then insert the batteries into the cordless handset again.

General use

Problem	Cause/solution
The unit does not work.	• Make sure the batteries are installed correctly. • Fully charge the batteries. • Check the connections. • Unplug the base unit's AC adaptor to reset the unit. Reconnect the adaptor and try again. • The cordless handset has not been registered to the base unit. Register the cordless handset.
I cannot hear a dial tone.	• The base unit's AC adaptor or telephone line cord is not connected. Check the connections. • If you are using a splitter to connect the unit, remove the splitter and connect the unit to the wall jack directly. If the unit operates properly, check the splitter. • Disconnect the base unit from the telephone line and connect the line to a known working telephone. If the working telephone operates properly, contact our service personnel to have the unit repaired. If the working telephone does not operate properly, contact your service provider/telephone company.
The indicator on the cordless handset flashes slowly.	• New messages have been recorded. Listen to the new messages. • New voice mail messages have been recorded. Listen to the new voice mail messages.

Programmable settings

Problem	Cause/solution
The display is in a language I cannot read.	• Change the display language.
While programming, the unit starts to ring.	• A call is being received. Answer the call and start again after hanging up.
I cannot register a cordless handset to a base unit.	• The maximum number of cordless handsets (6) is already registered to the base unit. Cancel unused cordless handset registrations from the base unit. • Place the cordless handset and the base unit away from other electrical appliances.

Battery recharge

Problem	Cause/solution
The handset beeps and/or ▭ flashes.	• Battery charge is low. Fully charge the batteries.
I fully charged the batteries, but ▭ still flashes or ▭ is displayed.	• Clean the charge contacts and charge again. • It is time to replace the batteries.
I fully charged the batteries, but the operating time seems to be shorter.	• Clean the battery ends ($\oplus$, $\ominus$) and the charge contacts with a dry cloth and charge again.

Making/answering calls, intercom

Problem	Cause/solution
Ψ is flashing.	● The cordless handset is too far from the base unit. Move closer. ● The base unit's AC adaptor is not properly connected. Reconnect AC adaptor to the base unit. ● You are using the base unit or cordless handset in an area with high electrical interference. Re-position the base unit and use the cordless handset away from sources of interference. ● The cordless handset is not registered to the base unit. Register it.
Noise is heard, sound cuts in and out.	● You are using the base unit or cordless handset in an area with high electrical interference. Re-position the base unit and use the cordless handset away from sources of interference. ● Move closer to the base unit. ● If you use a DSL/ADSL service, we recommend connecting a DSL/ADSL filter between the base unit and the telephone line jack. Contact your DSL/ADSL provider for details.
The base unit and/or cordless handset does not ring.	● The ringer volume is turned off. Adjust the ringer volume. ● Night mode is turned on. Turn it off.
I cannot make a call.	● The dialing mode may be set incorrectly. Change the setting. ● The cordless handset is too far from the base unit. Move closer and try again.
I cannot make long distance calls.	● Make sure that you have long distance service.

Call Display

Problem	Cause/solution
Caller information is not displayed.	● You must subscribe to Call Display service. Contact your service provider/telephone company for details. ● If your unit is connected to any additional telephone equipment such as a Call Display box or cordless telephone line jack, plug the unit directly into the wall jack. ● If you use a DSL/ADSL service, we recommend connecting a DSL/ADSL filter between the base unit and the telephone line jack. Contact your DSL/ADSL provider for details. ● The name display service may not be available in some areas. Contact your service provider/telephone company for details. ● Other telephone equipment may be interfering with this unit. Disconnect the other equipment and try again.

Problem	Cause/solution
Caller information is displayed late.	● Depending on your service provider/telephone company, the unit may display the caller's information at the 2nd ring or later. ● Move closer to the base unit.
I cannot dial the phone number edited in the caller list.	● The phone number you dialed might have been edited incorrectly (for example, the long distance "1" or the area code is missing). Edit the phone number with another pattern.
Time on the unit has shifted.	● Incorrect time information from incoming Call Display changes the time. Set the time adjustment to "Manual" (off).
The 2nd caller's information is not displayed during an outside call. (Visual Call Waiting feature does not function.)	● In order to use Call Display, Call Waiting, or Visual Call Waiting, you must first contact your service provider/telephone company and subscribe to the desired service. After subscribing, you may need to contact your service provider/telephone company again to activate this specific service, even if you already subscribed to both Call Display and Visual Call Waiting services (CWID).

Answering system

Problem	Cause/solution
The unit does not record new messages.	● The answering system is turned off. Turn it on. ● The message memory is full. Erase unnecessary messages. ● The recording time is set to "Greeting only". Change the setting. ● If you subscribe to a voice mail service, messages are recorded by your service provider/telephone company, not your telephone. Change the unit's number of rings setting or contact your service provider/telephone company.
I cannot operate the answering system.	● Someone is using the unit. Wait for the other user to finish. ● A caller is leaving a message. Wait for the caller to finish. ● The cordless handset is too far from the base unit. Move closer.
I cannot operate the answering system remotely.	● You are entering the wrong remote access code. If you forgot the remote access code, enter the remote access code setting to check your current code. ● Press each key firmly. ● The answering system is turned off. Turn it on. ● You are using a rotary/pulse telephone. Try again using a touch-tone phone.
While recording a greeting message or listening to messages, the unit rings and the operation stops.	● A call is being received. Answer the call and try again later.

Liquid damage

Problem	Cause/solution
Liquid or other form of moisture has entered the base unit/cordless handset.	● Disconnect the AC adaptor and telephone line cord from the base unit. Remove the batteries from the cordless handset and leave to dry for at least 3 days. After the base unit/cordless handset are completely dry, reconnect the AC adaptor and telephone line cord. Insert the batteries and charge fully before use.

Caution:
● To avoid permanent damage, do not use a microwave oven to speed up the drying process.

7 Schematic Diagram

7.1. For Schematic Diagram

7.1.1. Base Unit (Schematic Diagram (Base Unit_Main))

Notes:
1. DC voltage measurements are taken with voltmeter from the negative voltage line.

> Important Safety Notice:
> Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components, use only the manufacturer's specified parts.

2. The schematic diagrams may be modified at any time with the development of new technology.

7.1.2. Cordless Handset (Schematic Diagram (Cordless Handset))

Notes:
1. DC voltage measurements are taken with an oscilloscope or a tester with a ground.
2. The schematic diagrams may be modified at any time with the development of new technology.

7.1.3. Charger Unit (Schematic Diagram (Charger Unit))

Notes:
1. DC voltage measurements are taken with voltmeter from the negative voltage line.

> Important Safety Notice:
> Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components, use only the manufacturer's specified parts.

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

7.2. Schematic Diagram (Base Unit_Main)

NC: No Components
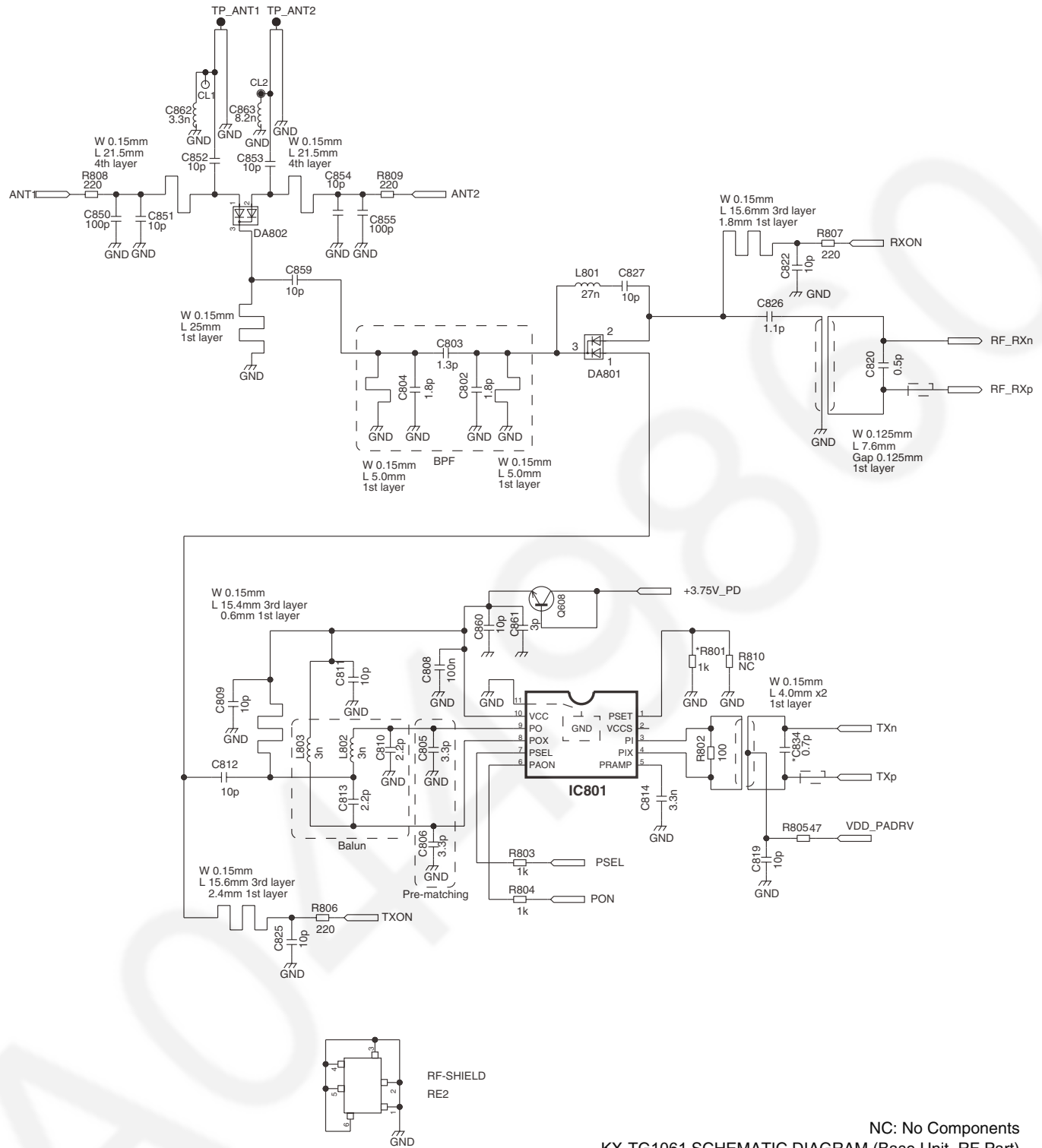
CDL Tx (to Tel line)
CDL Rx (from Tel line)
SP_Phone Tx (to Tel line)
SP_Phone Rx (from Tel line)
(Corded) Handset Tx (to Tel line)
(Corded) Handset Rx (from Tel line)
Bell
Bell (Power fail)
CLIP
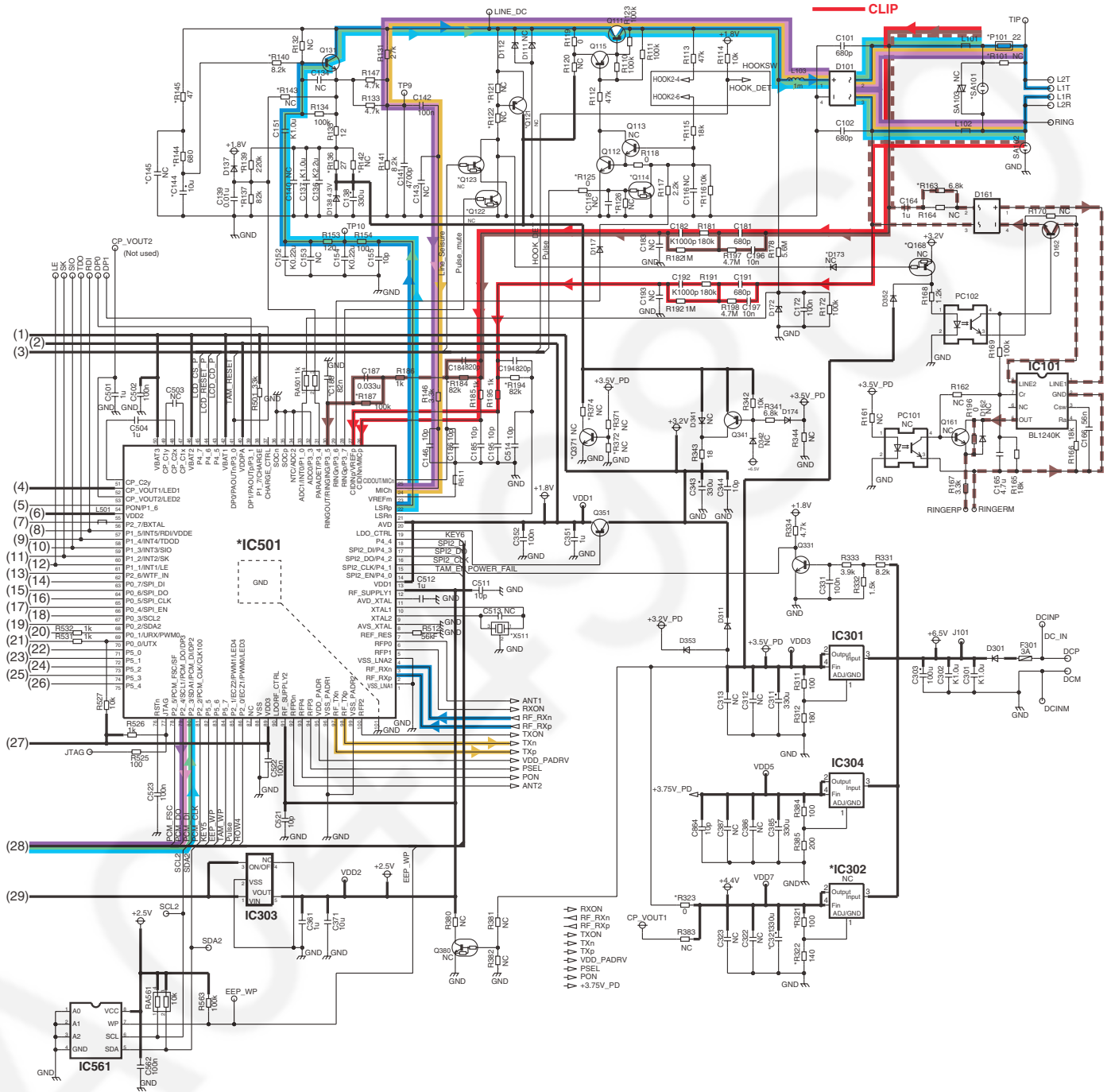
NC: No Components

KX-TG1061C SCHEMATIC DIAGRAM (Base Unit_Main)

7.3. Schematic Diagram (Base Unit_RF Part)

NC: No Components

KX-TG1061 SCHEMATIC DIAGRAM (Base Unit_RF Part)
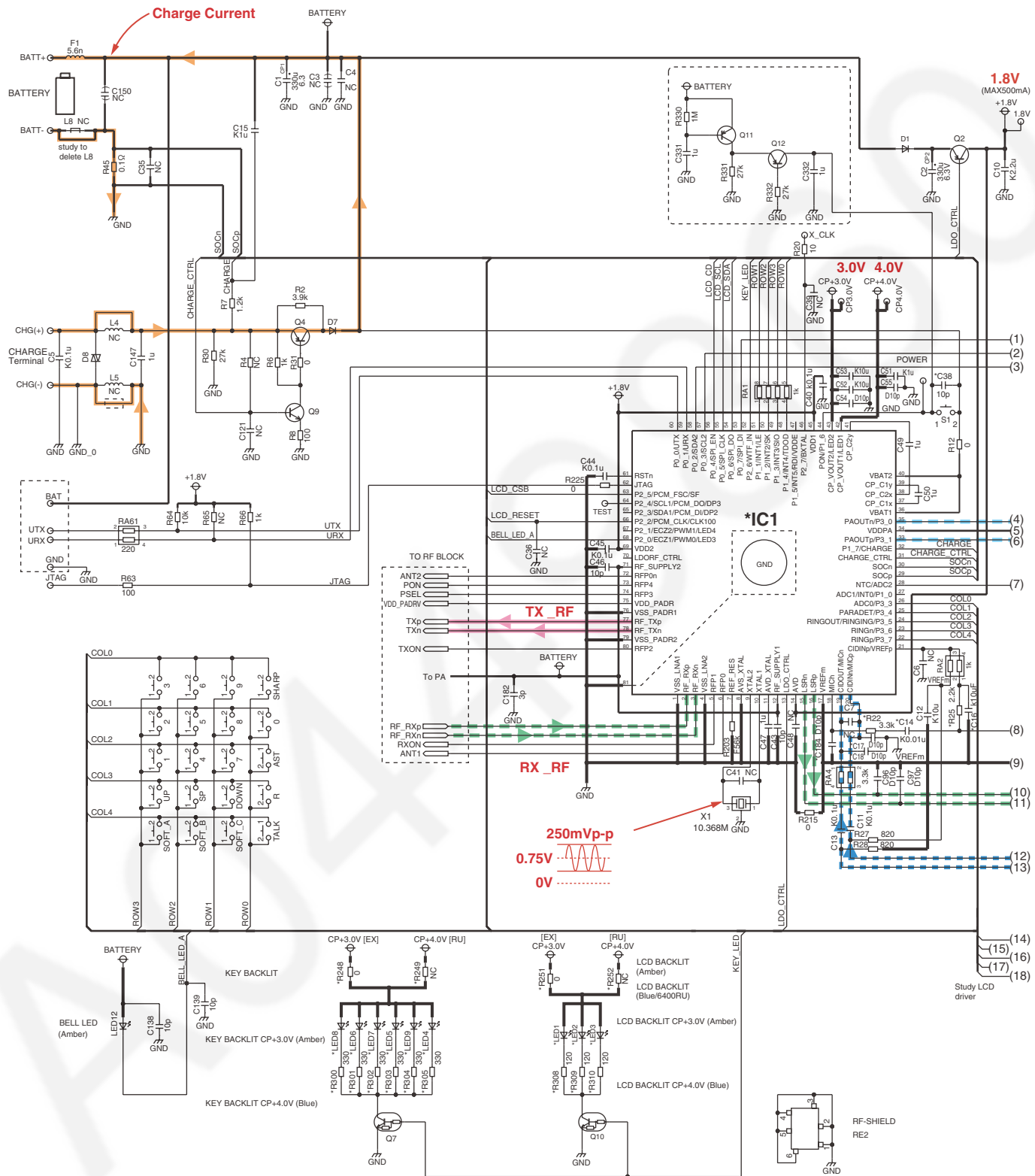
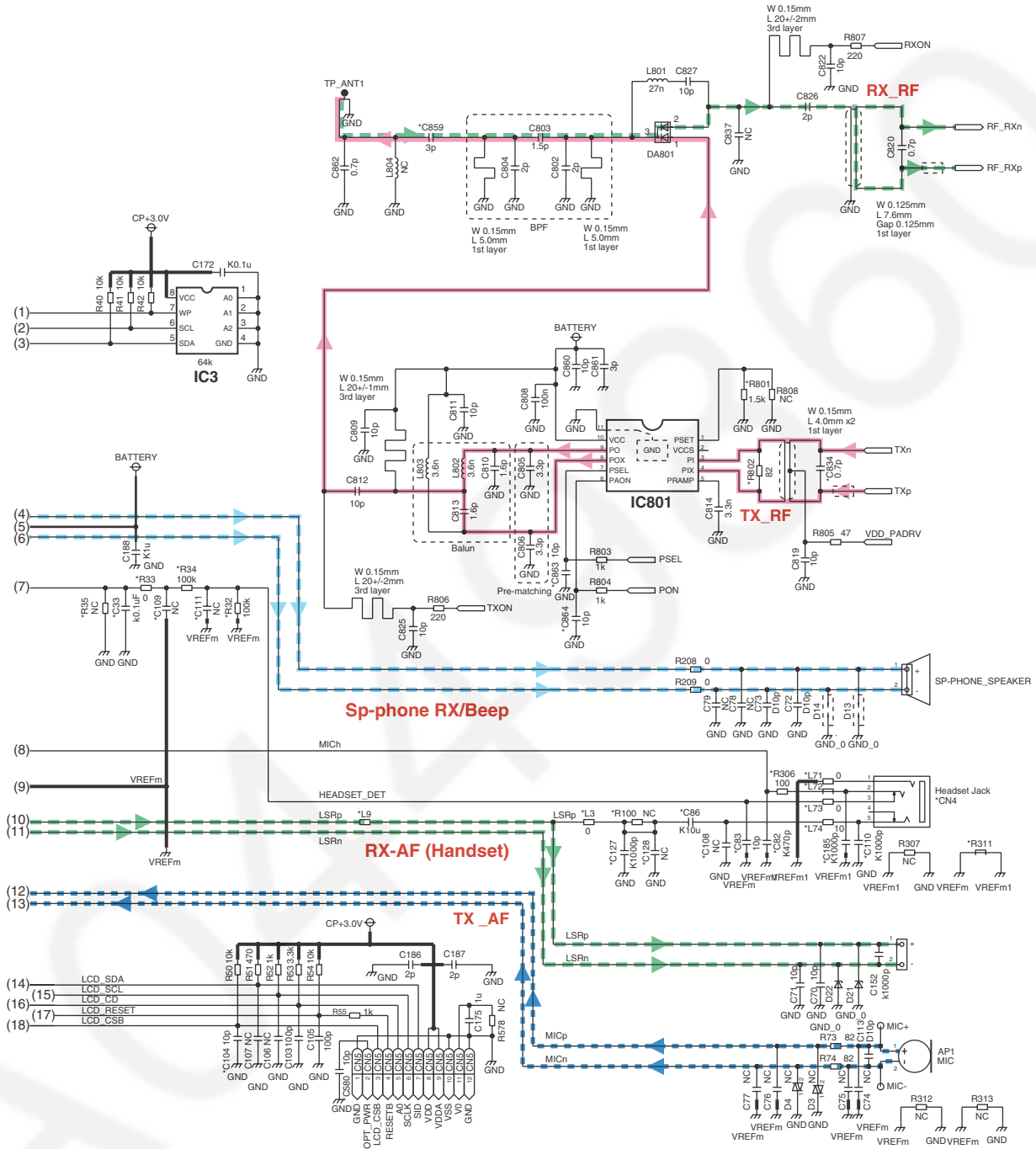# 7.4. Schematic Diagram (Base Unit_Operation)
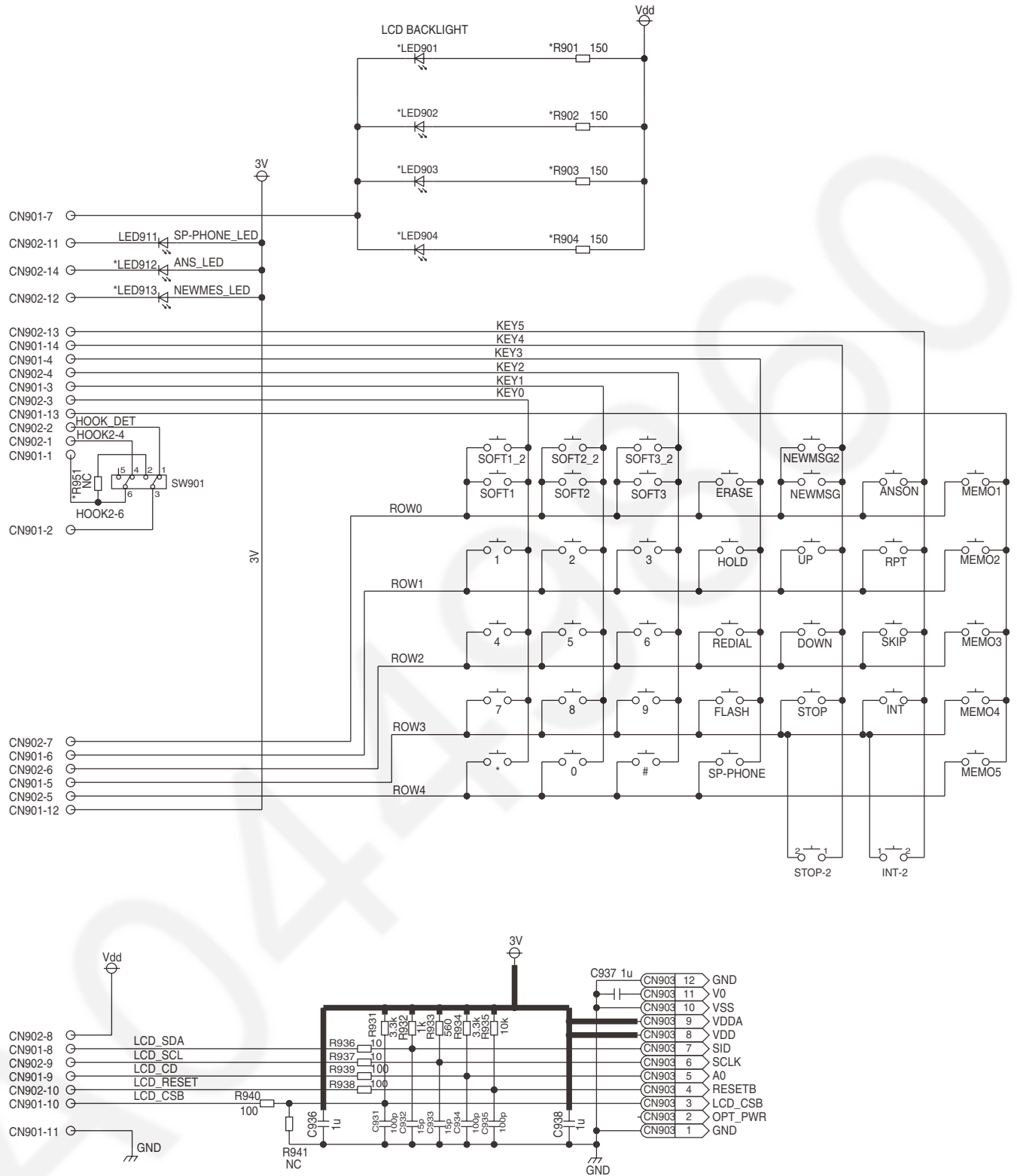
NC: No Components

KX-TG1061 SCHEMATIC DIAGRAM (Base Unit_Operation)

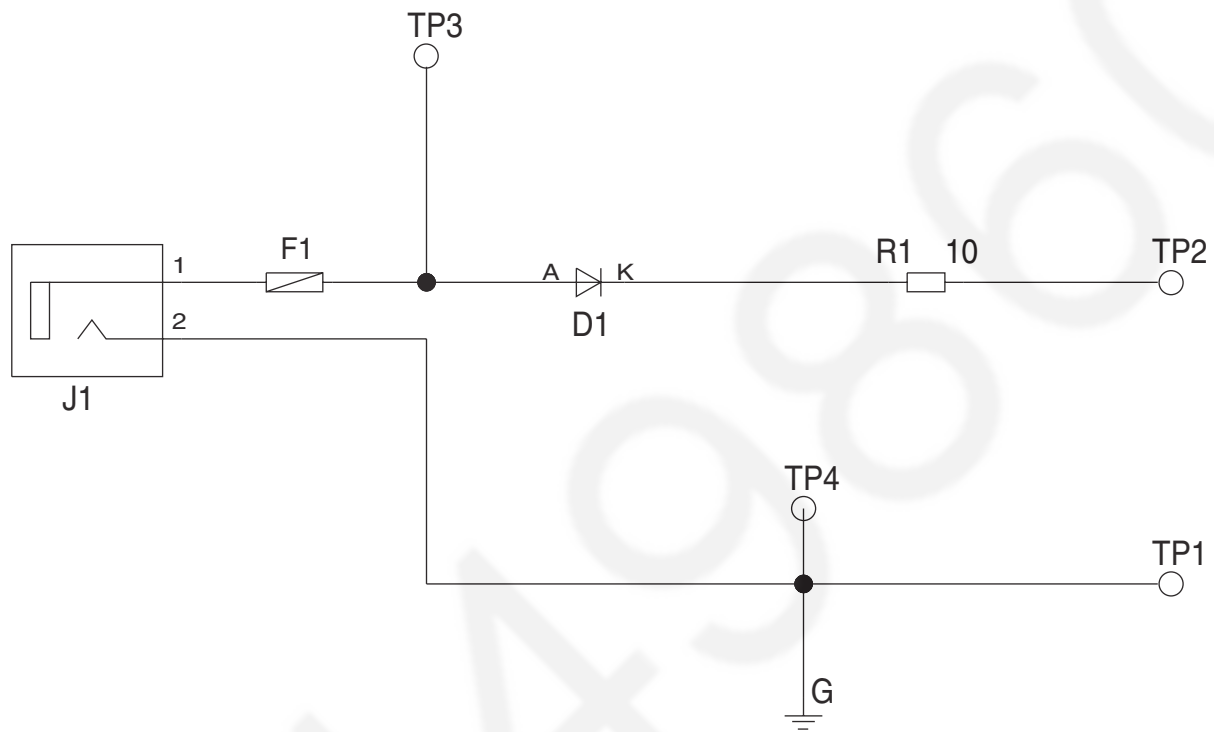# 7.5. Schematic Diagram (Cordless Handset)

NC: No Components

NC: No Components

KX-TGA106 SCHEMATIC DIAGRAM (Handset_Main)

7.6. Schematic Diagram (Charger Unit)

TP3

F1

1

2

J1

A ▷|◁ K

D1

R1   10

TP2

TP4

TP1

G

SCHEMATIC DIAGRAM (Charger Unit)

8 Exploded View and Replacement Parts List

1. RTL (Retention Time Limited)

   Note:

   The "RTL" marking indicates that its Retention Time is Limited.

   When production is discontinued, this item will continue to be available only for a specific period of time.

   This period of time depends on the type of item, and the local laws governing parts and product retention. At the end of this period, the item 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 manufacture's parts.
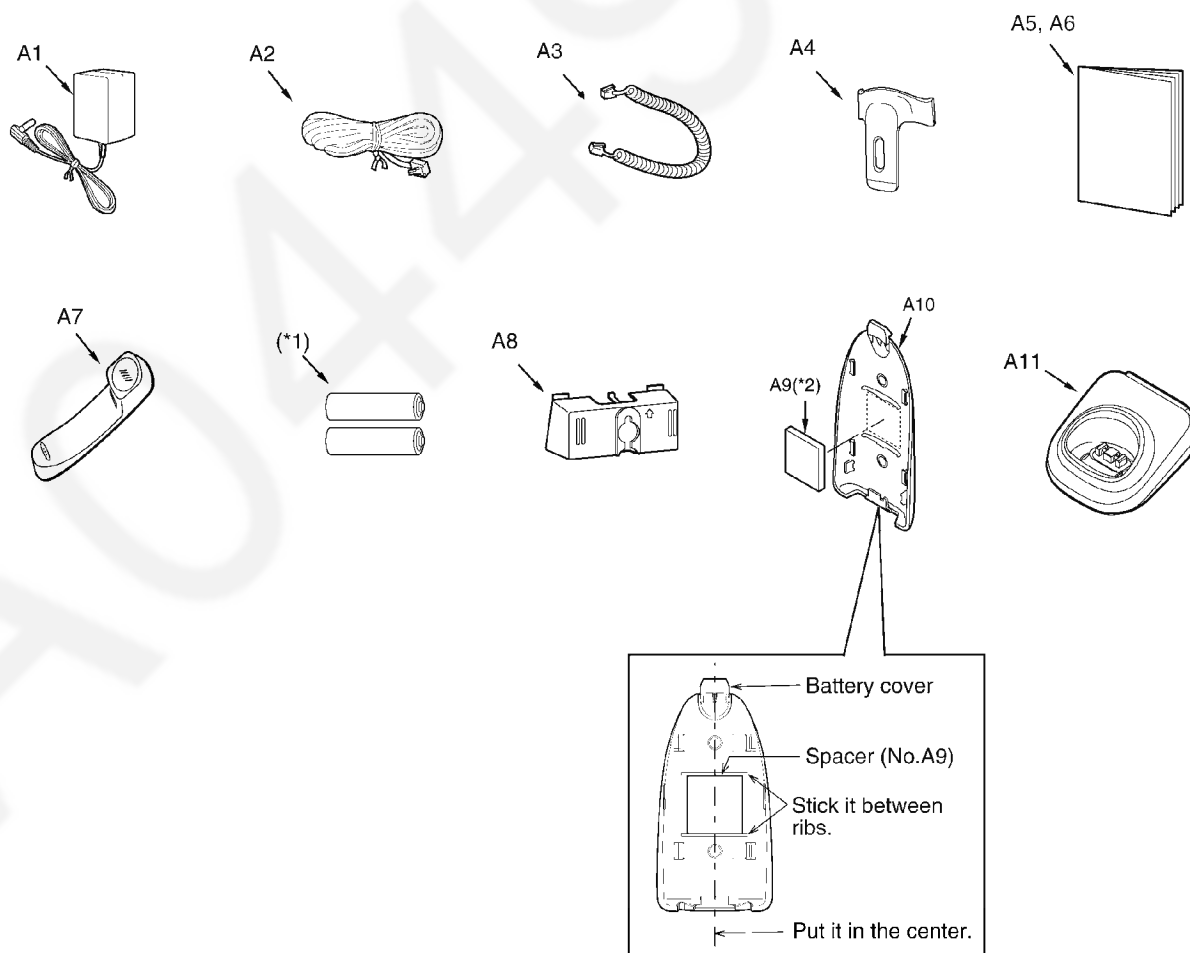
3. ISO code (Example: ABS-94HB) of the remarks column shows quality of the material and a flame resisting grade about plastics.

Note:

   (*1) You can download and refer to the Operating Instructions (Instruction book) on TSN Server.

8.1.   KX-TG1061CM

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
⚠	A1	PQLV219Z	AC ADAPTOR	
	A2	PQJA10075Z	CORD, TELEPHONE	
	A3	PQJA212V	CORD, CURLCORD	
	A4	PNKE1029Z1	HANGER, BELT CLIP	ABS-HB
	A5	PNQX1869X	INSTRUCTION BOOK (for English) (*1)	
	A6	PNQX1870X	INSTRUCTION BOOK (for French) (*1)	
	A7	PNLXP1006Z	HANDSET	ABS-HB
	A8	PQKL10035Z1	STAND, WALLMOUNT	ABS-HB
	A9	PNHS1079Z	SPACER, BATTERY COVER	
	A10	PNKK1027Z1	LID, BATTERY	
	A11	PNLC1008ZM	CHARGER UNIT ASS'Y (RTL)	

A1   A2   A3   A4   A5, A6

A7   (*1)   A8   A9(*2)   A10   A11

Battery cover

Spacer (No.A9)

Stick it between ribs.

Put it in the center.

Note:

   (*1) The rechargeable Ni-MH batery HHR-4DPA is available through sales route of Panasonic.
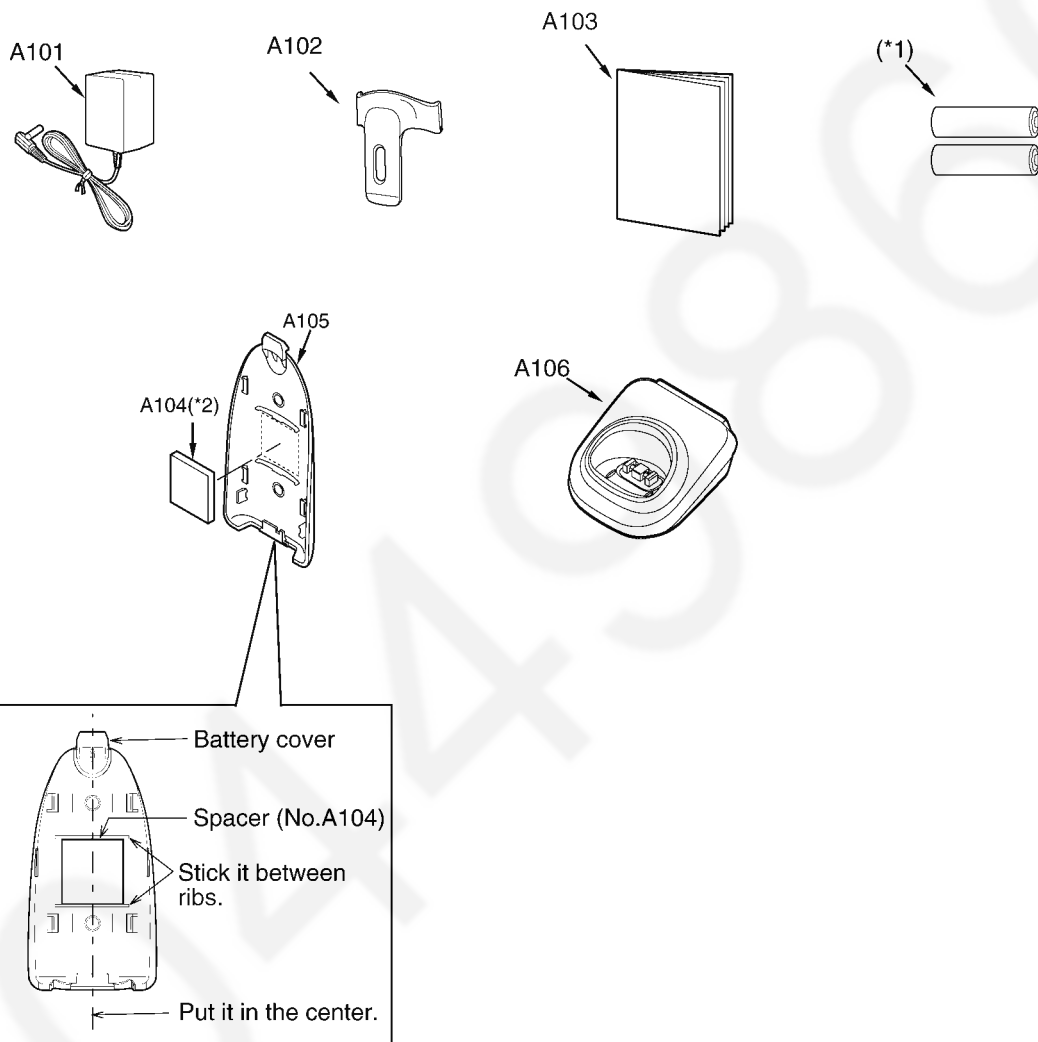
   (*2) Attach the SPACER (A9) to the exact location described above.

Note:

(*1) You can download and refer to the Operating Instructions (Instruction book) on TSN Server.

8.2.   KX-TGA106CM

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
⚠	A101	PQLV219Z	AC ADAPTOR	
	A102	PNKE1029Z1	HANGER, BELT CLIP	ABS-HB
	A103	PNQX1871Z	INSTRUCTION BOOK (*1)	
	A104	PNHS1079Z	SPACER, BATTERY COVER	
	A105	PNKK1027Z1	LID, BATTERY	
	A106	PNLC1008ZM	CHARGER UNIT ASS'Y (RTL)	

A101 A102 A103 (*1)

A105

A104(*2) A106

Battery cover

Spacer (No.A104)

Stick it between ribs.

Put it in the center.

Note:

(*1) Attach the SPACER (A104) to the exact location described above.

(*2) The rechargeable Ni-MH batery HHR-4DPA is available through sales route of Panasonic.

Y.S
KXTG1061CM
KXTGA106CM