

Service Manual

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ORDER NO. KM40105799C7

J01

Service Manual

Telephone Equipment

Caller ID Compatible

- KX-TC1703B/KX-TC1703F/KX-TC1703G/KX-TC1703PW

900MHz Digital Cordless Phone

Black Version

Blue Version

Green Version

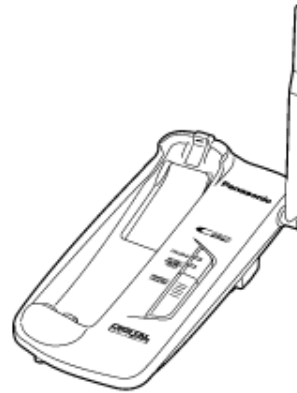
Pearl White Version

(for U.S.A.)

(for Panama)



(Handset)



(Base Unit)

SPECIFICATIONS

	Base Unit	Handset
Power Source:	AC Adaptor (PQLV2Z)	Rechargeable Ni-Cd battery
Receiving Frequency:	22 channels within 902.00~928.00 MHz	22 channels within 902.00~928.00 MHz
Receiving Method:	Double super heterodyne	Double super heterodyne
Transmitting Frequency:	22 channels within 902.00~928.00 MHz	22 channels within 902.00~928.00 MHz
Oscillation Method:	PLL synthesizer	PLL synthesizer
Tolerance of OSC Frequency:	4.096 MHz	4.096 MHz
Modulation Method:	TDD-FSK	TDD-FSK
Spread spectrum Method:		
Chip rate		
ID Code:	28-bit	28-bit
Dial Mode:	Tone (DTMF)/Pulse	Tone (DTMF)/Pulse
Redial:	Up to 32digits	Up to 32 digits
Speed Dialer:		Up to 48 digits
Power Consumption:		14 days at Standby, 6 hours at Talk
Dimension (H x W x D):	3 11/32" x 47/32" x 8 1/4" (85 x 107 x 210mm)	1 5/8" x 2 5/32" x 9 7/16" (41 x 55 x 240 mm)
Weight	0.56 lbs. (256 g)	0.49 lbs. (220g) with battery

Design and specifications are subject to change without notice.

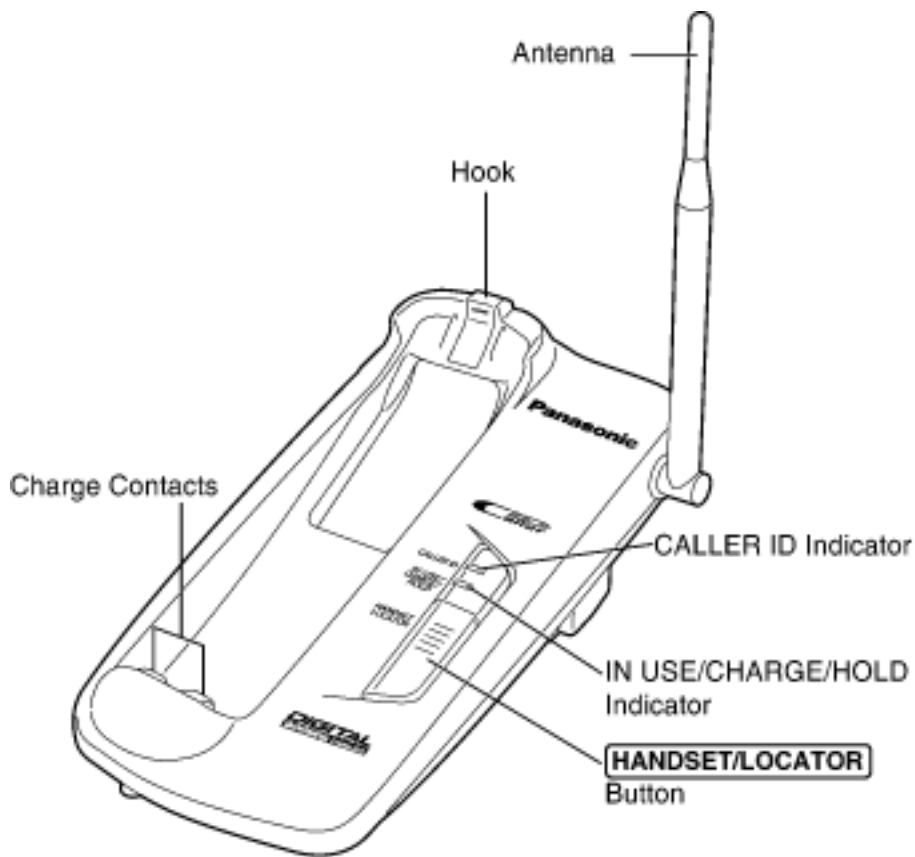
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⚠ WARNING

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

1.1 Base unit

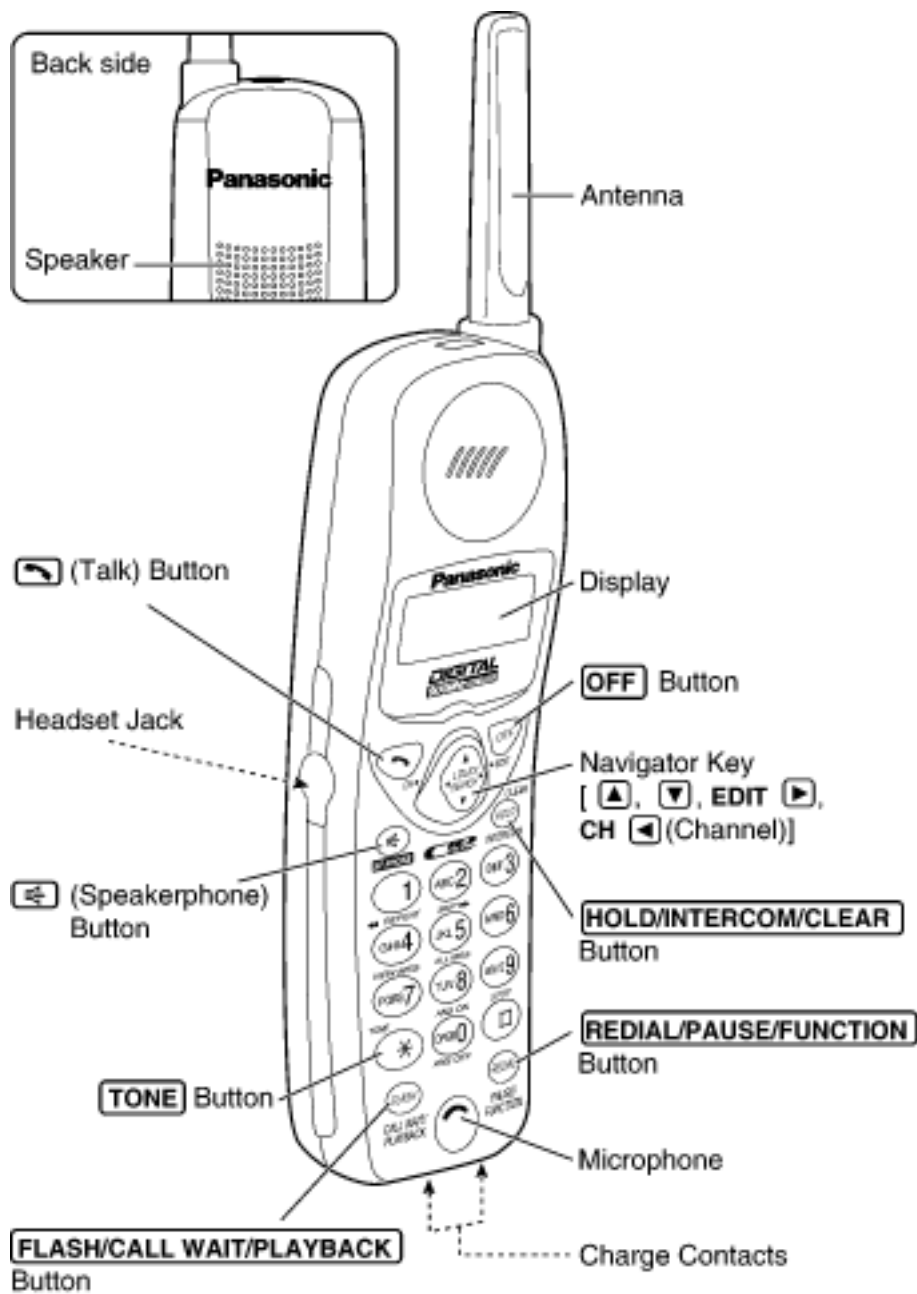
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1.2 Handset


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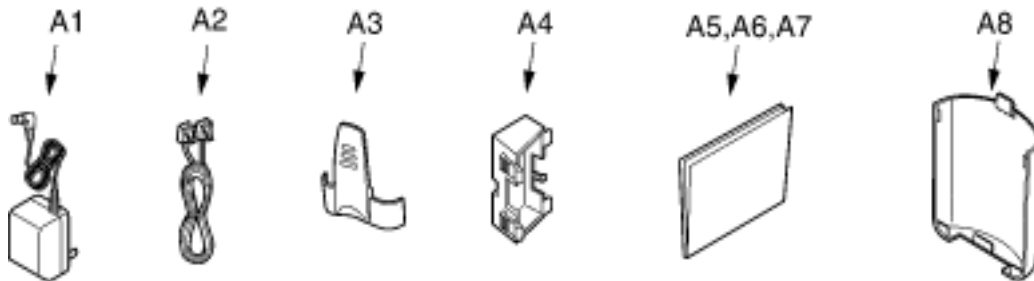


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2 REPLACEMENT PARTS LIST

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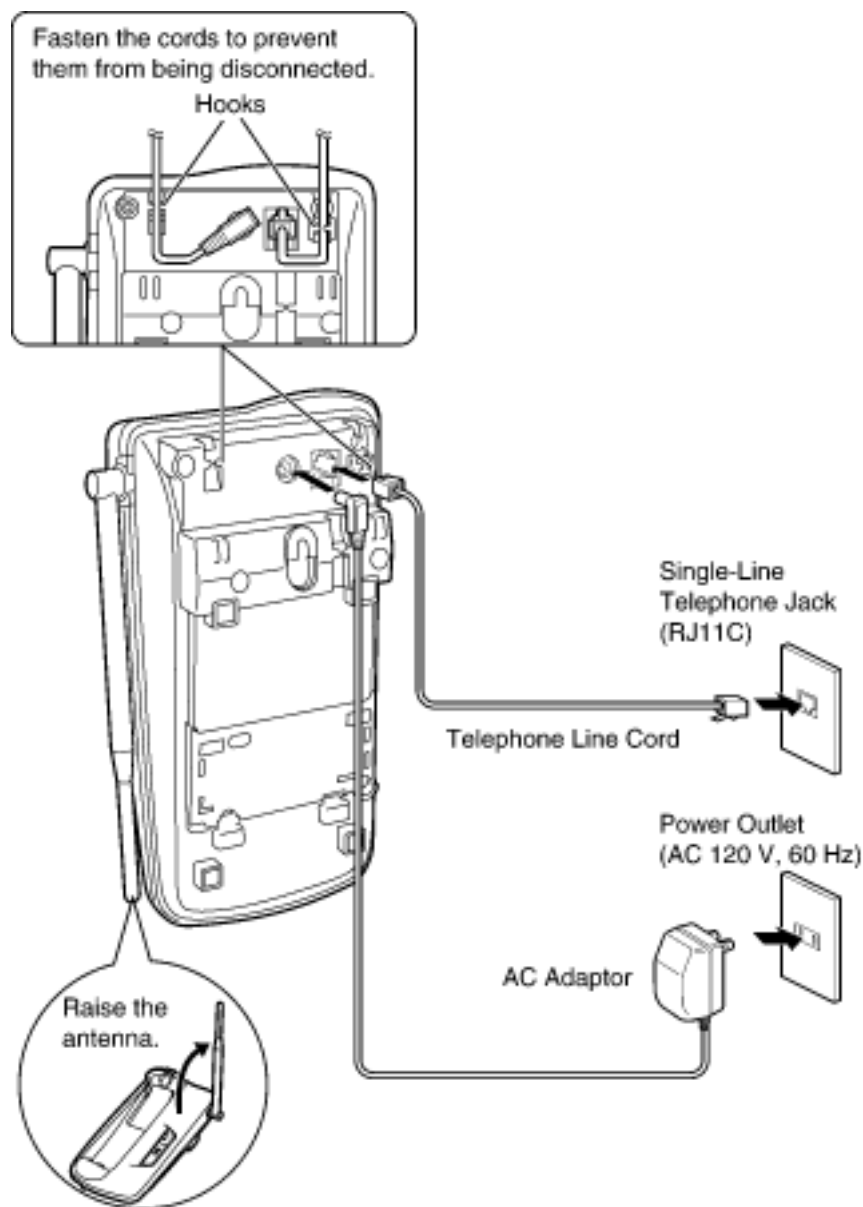
Ref. No.	Part No.	Part Name & Description	Pcs/Set	Remarks
A1	PQLV2Z	AC ADAPTOR	1	
A2	PQJA10075Z	TEL CORD	1	
A3	PQKE10130Z1	BELT CLIP (for KX-TC1703B)	1	S
A3	PQKE10130Z4	BELT CLIP (for KX-TC1703F)	1	S
A3	PQKE10130Z5	BELT CLIP (for KX-TC1703G)	1	S
A3	PQKE10130Z3	BELT CLIP (for KX-TC1703PW)	1	S
A4	PQKL10035Z1	WALL MOUNT ADAPTOR (for KX-TC1703B) (for KX-TC1703F) (for KX-TC1703G)	1	S
A4	PQKL10035Z2	WALL MOUNT ADAPTOR (for KX-TC1703PW)	1	S
A5	PQQW12433Z	QUICK GUIDE (for English)	1	
A6	PQQW12434Z	QUICK GUIDE (for Spanish)	1	
A7	PQQX13050Z	INSTRUCTION BOOK	1	
A8	PQKK10120Z1	BATTERY COVER (for KX-TC1703B)	1	S
A8	PQKK10120Y4	BATTERY COVER (for KX-TC1703F)	1	S
A8	PQKK10120Y5	BATTERY COVER (for KX-TC170G)	1	S
A8	PQKK10120Y3	BATTERY COVER (for KX-TC1703PW)	1	S



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3 CONNECTIONS

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Note:

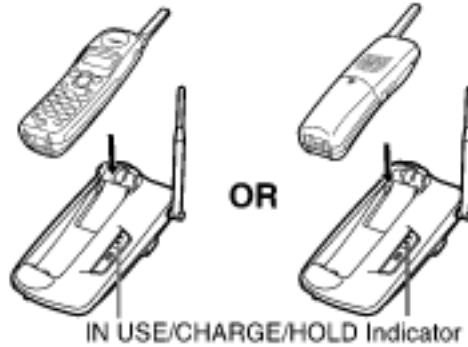
- **USE ONLY WITH Panasonic AC ADAPTOR PQLV2Z.**
- The AC adaptor must remain connected at all times. (It is normal for the adaptor to feel warm during use.)
- If your unit is connected to a PBX which does not support Caller ID and voice mail services, you cannot access those services.

4.1 Battery Charge

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Place the handset on the base unit and charge for about **15 hours** before initial use.

- The IN USE/CHARGE indicator lights.



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4.2 Battery Strength

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You can check the battery strength on the display while the handset is on the base unit, while it is in use (making/answering a call etc.), or after viewing the Caller List, or directory items, programming, etc. The battery strength will remain on the display for a few seconds after using the handset, then the display will return to the standby mode.

The battery strength is as shown in the chart below.

Display prompt	Battery strength
{ ■■■■ }	Fully charged
{ ■■■ }	Medium
{ ■■ }	Low
⚡{ ■■ }⚡ (flashing)	Needs to be recharged.

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4.3 Recharge

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Recharge the battery when:

- "Recharge" is displayed,
- "[■]" flashes on the handset display, or
- The handset beeps intermittently while it is in use.



- If you DO NOT recharge the handset battery for more than 15 minutes, the display will keep indicating "Recharge" and/or "[■]" will continue to flash.

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4.4 Battery Information

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After your Panasonic battery is fully charged;

Operation	Approx, battery life
While in use (TALK)	Up to about 6 hours
While not in use (Standby)	Up to about 14 days

- Battery life may be shortened depending on usage conditions, such as viewing the Caller ID Caller List, and ambient temperature.
- **Clean the handset and the base unit charge contacts with a soft, dry cloth. Clean if the unit is subject to grease, dust or high humidity.** Otherwise the battery may not charge properly.
- If the battery is fully charged, you do not have to place the handset on the base unit until "Recharge battery" is displayed and/or "[■]" flashes. This will maximize the battery life.
- The battery cannot be overcharged.

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4.5 Standby Mode

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Handset (While off the base unit)

The handset goes into the standby mode after you finish using the handset (marking/answering a call, viewing the Caller List or directory list etc.). The display is blank, but the handset can receive calls. The battery life is conserved in this mode.

Base Unit

The base unit goes into the standby mode after you finish using the base unit (marking/answering a call, using the intercom, using the answering system etc.). Programming and storing phone numbers are possible **only when** the base unit is in the standby mode.


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5.1 BASE UNIT (SCHEMATIC DIAGRAM (Base Unit))

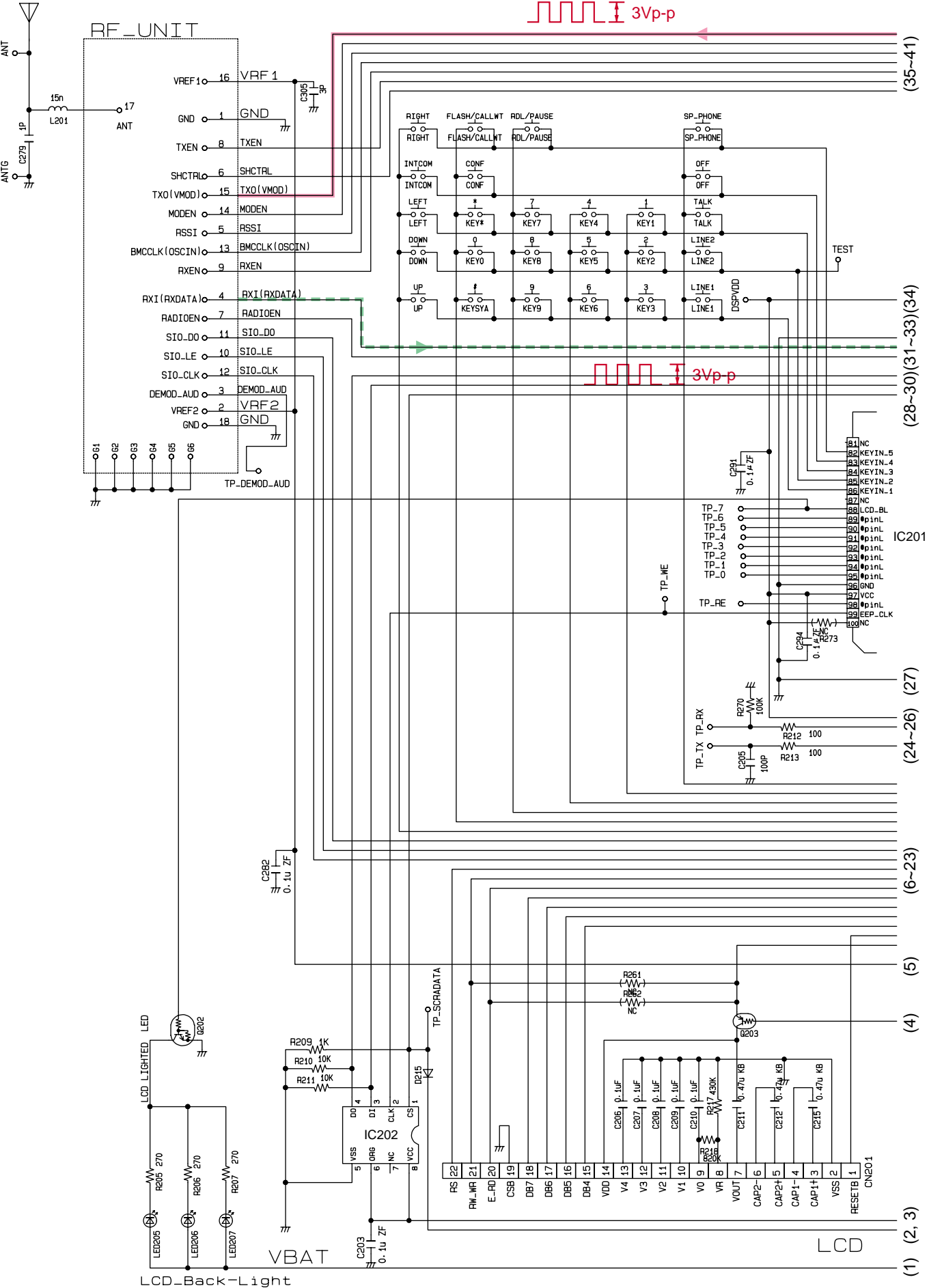
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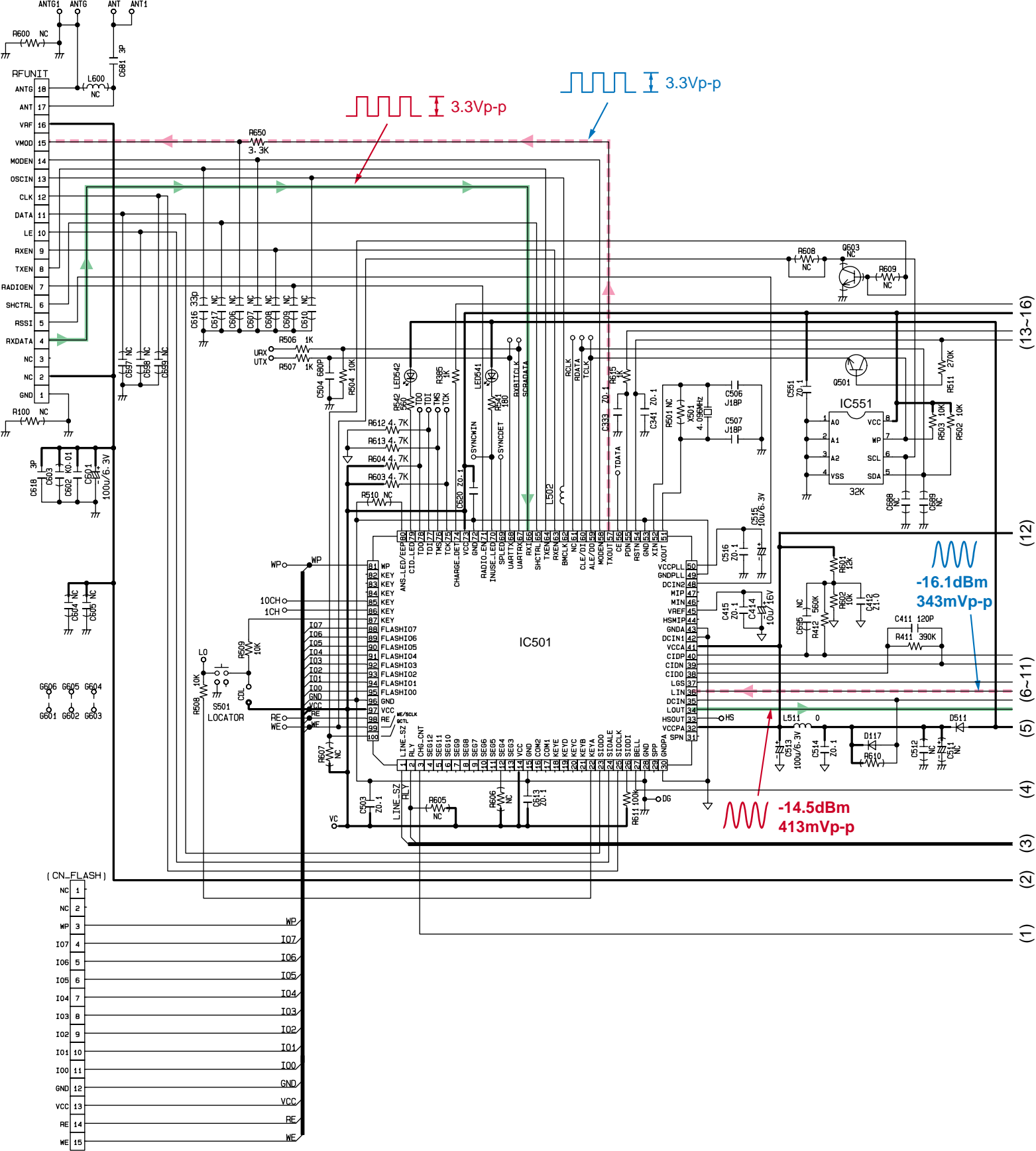
1. DC voltage measurements are taken with an oscilloscope or a tester with a ground.
2. The schematic diagrams and circuit board. May be modified at any time with the development of new technology.

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.

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3.3Vp-p

3.3Vp-p

-16.1dBm
343mVp-p

-14.5dBm
413mVp-p

(CN_FLASH)

NC	1	WP
NC	2	
WP	3	WP
I07	4	I07
I06	5	I06
I05	6	I05
I04	7	I04
I03	8	I03
I02	9	I02
I01	10	I01
I00	11	I00
GND	12	GND
VCC	13	VCC
RE	14	RE
WE	15	WE

(13-16)

(12)

(6-11)

(5)

(4)

(3)

(2)

(1)

