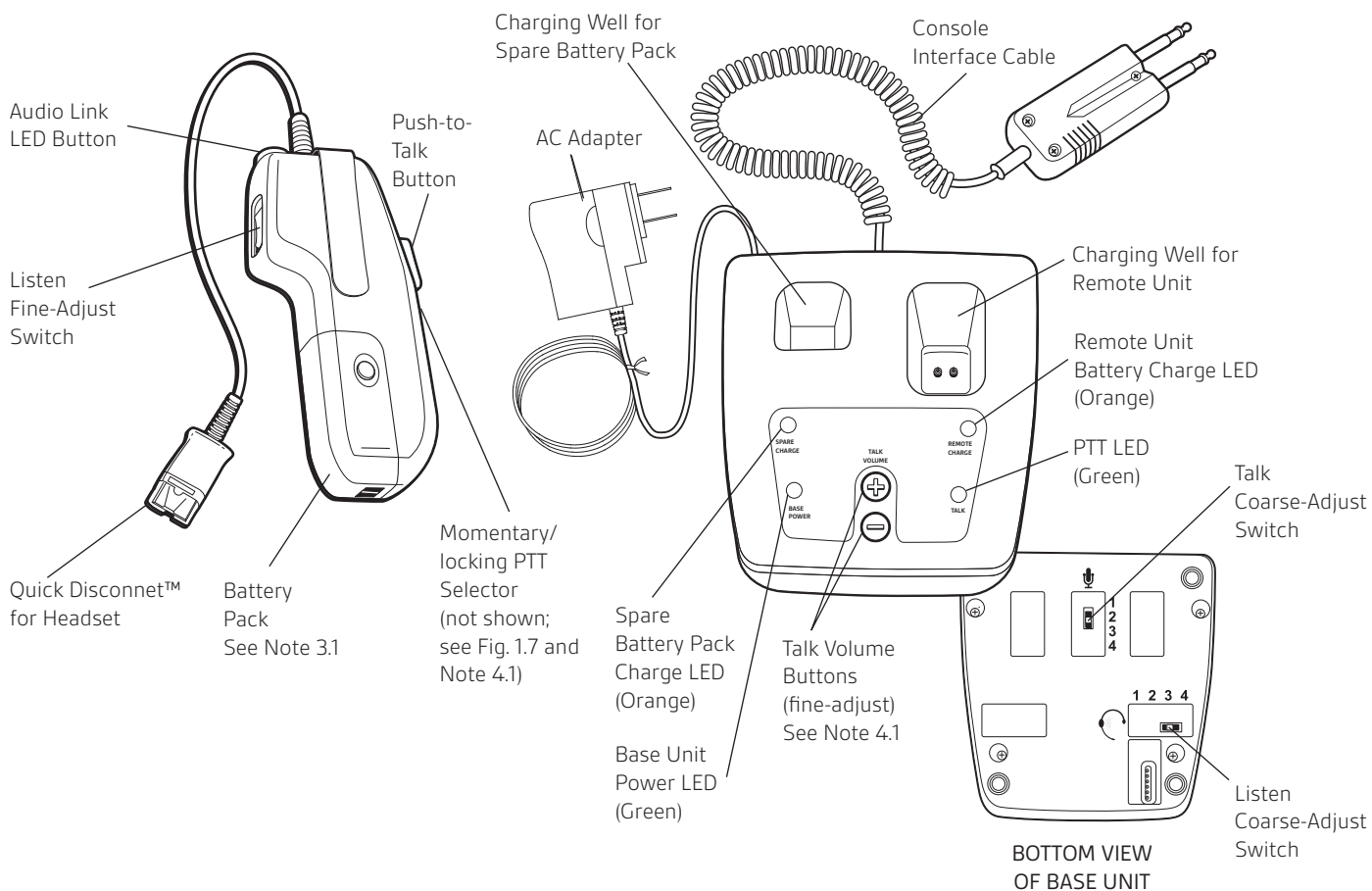
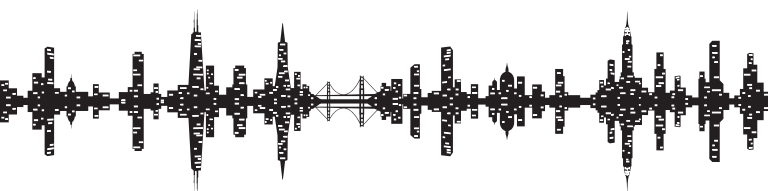
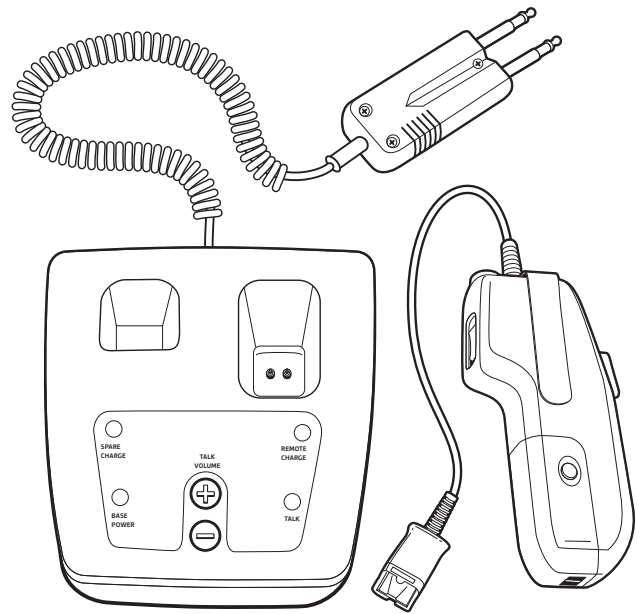


USER GUIDE

Model **CA12CD-S**

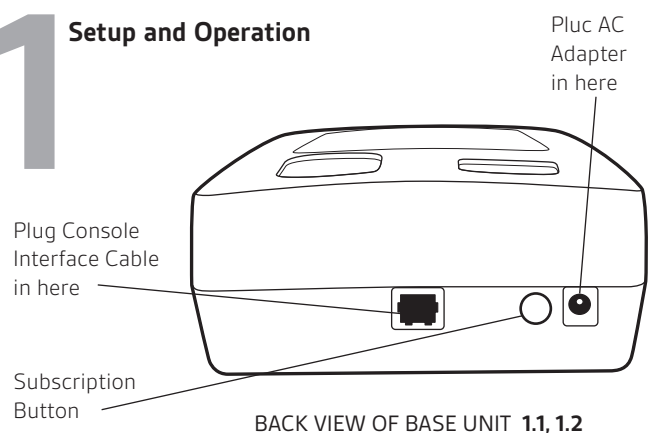
Push-to-Talk Headset Amplifier



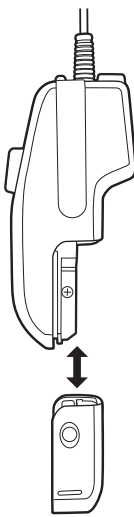
REMOTE UNIT

BASE UNIT

**1** Setup and Operation

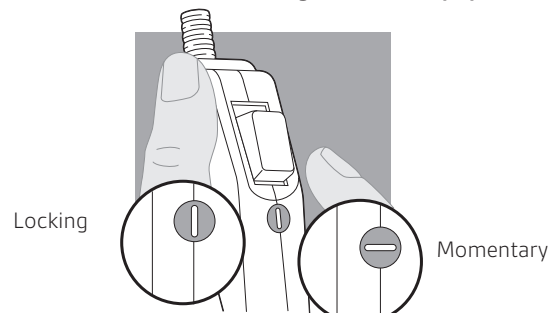


- 1.1 Plug the modular connector on the Console Interface Cable into the modular jack on the back of the Base. Plug the other end into your console.
- 1.2 Plug the AC adapter into a wall outlet, and plug the power connector into the back of the Base. The Base Power LED will turn on.
- 1.3 Slide the battery pack onto the Remote and snap it into place without forcing it. The CA12CD-S will take a few seconds to select the most reliable radio channel, and then it will start to blink its Audio Link LED at once per second, to indicate that it is ready to use.
- 1.4 For first-time use, press the Audio Link button to turn the audio link off, and place the Remote into its charging well to charge the attached battery pack.
- 1.5 Place the spare battery pack into its charging well.
- 1.6 The Charge LEDs will flash until the battery packs are fully charged, at which time the LEDs will stop flashing and remain on. (It is okay to use the Remote after only one hour of charging time if desired.)
- 1.7 Press the PTT Button on the Remote to key up your communications radio. The Talk LED on the Base will turn on whenever the PTT button is pressed.



Installing the Battery Pack

1.7 How to set the PTT button for locking or momentary operation



**Locking Operation**

When the selector's slot is aligned with the Remote's center-line, the PTT button can be depressed momentarily or locked in the ON position by first depressing then sliding the button down toward the selector until the button locks into place.

**Momentary Operation**

Turning the selector 90 degrees from the locking position will set the PTT button for momentary operation.

**2** Performance Tips

- 2.1 Careful setting of the audio levels, both in your communications console and in the CA12CD-S, is essential for getting good audio quality and avoiding echo. Please see the separate sheet, **Audio Settings Guide for the CA12CD-S**, for detailed advice.
- 2.2 Operating other radio devices, such as DECT cordless handsets, in the same frequency band as the CA12CD-S will reduce the number of units that can be operated at one time, along with reducing their maximum range. In North America, the CA12CD-S operates in the UPCS frequency band (1.92 to 1.93 GHz). In other regions (e.g., the European Union), the CA12CD-S operates in the DECT frequency band (1.88 to 1.90 GHz).
- 2.3 User density and range can vary widely due to such variables as building layout and whether other devices are operating in the same frequency band as the CA12CD-S.  
  
In low-density installations (e.g., 5 units placed 10 feet apart), the range can be greater than 100 feet. In high-density installations (e.g., 30 units placed 18 inches apart), the range could decrease to as little as 10 feet. In general, it is best to place them as far apart from each other as possible.
- 2.4 Keep cell phones at least 3 feet from both the Base and the Remote when the Remote is not near the Base. When the Base and Remote are near each other, cell phones can be closer than 3 feet, but should never be placed right next to the Base or Remote.
- 2.5 Remove the battery pack and power cord from any unused units to allow more radio spectrum for active units. This is especially important where large numbers of them are in use.

**3** Battery Charging and Management

- 3.1 A new, fully charged battery pack will last for about 8 hours, however, we recommend swapping the Remote's battery pack with a freshly charged battery pack from the Spare Charger about every 4 hours. Doing so will help insure that mission-critical communications are not interrupted by low batteries. Following this recommendation will also maximize the battery's service life.
- 3.2 Between battery swaps, we recommend placing the Remote in its charging well whenever possible, and, if it is not being used, turning the audio link off by pressing the Audio Link button.
- 3.3 If the Remote is left in the charging well with the link up, a new charging cycle will typically begin about 3 hours after the first charging cycle. Using the Remote at this time without installing a freshly charged battery pack could result in reduced talk time.
- 3.4 A completely depleted battery pack requires about 4 hours to fully charge.
- 3.5 The Remote will continue to draw a small amount of power from the battery even after being turned off. If you need to store the Remote, remove the battery pack so that it does not become completely discharged while in storage.

**Warning:** Touching the battery-charging contacts or placing objects other than the battery packs and Remote in the charging wells may adversely affect the operation of the CA12CD-S.

**Note 3.1:** Rechargeable batteries of all types gradually age and lose their ability to give and receive charge. Over time, this will result in gradually decreasing talk times. In a typical 24/7 operation, where the batteries are regularly being charged and discharged, we recommend that you monitor their performance and replace them as needed.

**4** Subscribing Remotes and Bases

The Base and the Remote are paired with each other at the factory in a process called subscription. If you replace either one, you can subscribe them as follows:

- 4.1 Press and hold the Subscription button on the back of the Base. (Alternatively, you can hold both of the Talk Volume buttons on the top of the Base down.)
  - a. The Base Power LED will begin blinking.
- 4.2 Hold the Remote's Listen Volume Control in either the up or down position.
  - a. The Remote's Audio Link LED will turn on steadily (no flashing). The Remote will subscribe to the Base, after which the Base Power LED will return to the steadily-on state. The Remote's Audio Link LED will go out for a few seconds and then begin to flash once per second, indicating that your CA12CD-S is now ready to use.

**Note 4.1: Remotes and Bases from different models and product generations cannot be mixed. Please see Table 4.1.**

Color of Momentary/Locking Selector on Remote (see Figure 1.7 for location)	Color of Talk Volume Buttons on Base	Model & Product Generation	Primary Region of Use
Black	Black	CA12CD, 1 <sup>st</sup> Gen.	North America
White	Black (check label on bottom of base to verify model)	CA12CD/A, 1 <sup>st</sup> Gen.	Europe
Gray	Gray	CA12CD-S, 2 <sup>nd</sup> Gen.	North America
Purple	Purple	CA12CD-S/A, 2 <sup>nd</sup> Gen.	Europe

## CONTROLS

Name	Location	Function(s)
Push-to-Talk (PTT) Button	Remote	Keys up the communications radio.
Locking-Momentary Selector	Remote	Enables or disables locking operation of the PTT Switch
Audio Link LED Button	Top of Remote	Turns the audio link between the Remote and the Base on and off.
Listen Fine-Adjust Switch	Remote	1. Adjusts the Listen sensitivity in 2-dB steps. 2. Places the Remote into Subscription Mode when pressed and held in either the Up or Down position.
Listen Coarse-Adjust Switch	Bottom of Base	Adjusts the Listen sensitivity in 6-dB steps.
Talk Volume Buttons (fine-adjust)	Top of Base	1. Adjust the Talk sensitivity in 2-dB steps. 2 Set the Talk sensitivity to midrange when both are pressed quickly at the same time. 3. Place the Base into Subscription Mode when both are pressed and held at the same time. Some versions of the CA12CD-S do not have these buttons.
Talk Coarse-Adjust Switch	Bottom of Base	Adjusts the Talk output for carbon-, electret-, or dynamic-mic applications. Carbon (Position 4) is the factory setting, and is suitable for most applications.
Subscription Button	Back of Base	Places the Base into Subscription Mode when pressed and held (this is an alternative to pressing and holding the Talk Volume buttons).

## LEDS

Name	Location	Function(s)
Audio Link (green)	Top of Remote; part of the Audio Link LED Button	1) Flashes once per second to indicate an active audio link. 2) Glows steadily (no flashing) when the Remote is in Subscription Mode. 3) Flashes 6 times per second if the subscription is lost (see the next section for more information).
Power (green)	Base	1) On continuously when the Base is powered up 2) Flashes once per second when the Base is in Subscription Mode.
Talk (green)	Base	On steadily (no flashing) when PTT button is depressed.
Charge (orange, 2 ea.)	Base, 1 for each charging well	1) Flashes once per second while the battery is charging. 2) On steadily when the battery is fully charged. 3) Flashes six times per second to indicate a fault condition (see the next section for more information).

## ERROR CONDITIONS

If you hear a...	It means...
Triple beep	Your Remote has lost its audio link with the Base. Usually, this is due to being too far away from the Base. (Note that a triple beep while using the Talk or Listen fine adjust controls indicates that the level is at its nominal setting.)
Single beep every 10 seconds	Your battery is low and should be changed or charged.
If you see...	It means...
The Audio Link LED flashing six times per second	Your Remote is not subscribed to the Base. See the instructions in the next section for subscribing Bases and Remotes.
A Charge LED flashing six times per second	Your battery should be replaced, or there could be an object such as a coin or a paperclip in the charging well.

### ATTENTION:

Interruption or termination of the communications link between the Base and the Remote will occur under the following or similar conditions:

- Power outage
- Moving the Remote out of range from the Base
- Pressing the Audio Link button on the Remote while the audio link is active
- Disconnection of the Base's power supply
- Removal of the battery pack from the Remote
- Low battery
- Operation of other radio devices in the same frequency range (1.92 to 1.93 GHz for North America and 1.88 to 1.90 GHz for Europe and some other regions) as the CA12CD-S.
- Too many CA12CD-Ss in the same location. At least 30 can typically be operated in the same location. However, this number can vary depending on such factors as building layout and materials, physical separation of units, and other radio devices operating nearby.

## FCC PART 15 REQUIREMENTS

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference, and
- This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception which can be determined by turning the radio or television off and on, the user is encouraged to try to correct interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on another circuit.
- Consult the dealer or an experienced radio/TV technician for help.

### Exposure to Radio Frequency Radiation

This device and its antenna must not be co-located or operated in conjunction with any other antenna or transmitter. To comply with FCC RF exposure requirements, use only the supplied antenna.

The radiated output power of this internal wireless radio is far below the FCC radio frequency exposure limits. Nevertheless, the wireless radio shall be used as described in the manual.

The internal wireless radio operates within guidelines found in radio frequency safety standards and recommendations, which reflect the consensus of the scientific community.

Plantronics therefore believes the internal wireless radio is safe for use by consumers. The level of energy emitted is far less than the electromagnetic energy emitted by wireless devices such as mobile phones. However, the use of wireless radios may be restricted in some situations or environments, such as aboard airplanes. If you are unsure of restrictions, you are encouraged to ask for authorization before turning on the wireless radio.

In order to comply with FCC and IC RF Exposure requirements, the base must be installed and operated such that a minimum separation distance of 20 cm is maintained between the base and all persons during normal operation. The Remote complies with FCC radiation limits set forth for an uncontrolled environment.

**NOTE:** Modifications not expressly approved by Plantronics, Inc. could void the user's authority to operate the equipment.

## INDUSTRY CANADA REGULATORY INFORMATION

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

- this device may not cause interference, and
- this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

- l'appareil ne doit pas produire de brouillage, et
- l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment.

Cet équipement est conforme aux limites d'exposition de radiation IC énoncés pour un environnement non contrôlé.

CAN ICES-3 (B)/NMB-3(B)

## LIMITED WARRANTY

- This warranty covers defects in materials and workmanship of products manufactured, sold or certified by Plantronics that were purchased and used in the United States.
- The warranty lasts for one year from the date of purchase of the products.
- This warranty extends to you only if you are the end user with the original purchase receipt.
- We will, at our option, repair or replace the products that do not conform to the specification. We may use functionally equivalent reconditioned, refurbished, remanufactured, pre-owned or new products or parts.
- To obtain service in the U.S., contact Plantronics at 800-544-4660.
- THIS IS THE COMPLETE PLANTRONICS WARRANTY FOR THE PRODUCTS.**
- This warranty gives you specific legal rights, and you may also have other rights that vary from state to state. Please contact your dealer or our service center for the full details of our limited warranty, including items not covered by this limited warranty.

## TECHNICAL ASSISTANCE

Visit our Web site at [www.plantronics.com/support](http://www.plantronics.com/support) for technical support including frequently asked questions, compatibility and accessibility information. The Plantronics Technical Assistance Center (TAC) is also ready to assist you on 800-544-4660.

## IMPORTANT SAFETY INSTRUCTIONS

When using your telephone equipment, basic safety precautions should always be followed to reduce the risk of fire, electric shock, and injury to persons, including the following:

- Read and understand all instructions.
- Follow all warnings and instructions marked on the product. The symbol identifies and alerts the user to the presence of important operating and service instructions.
- Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
- Do not locate Base Unit near water, for example, near a bathtub or sink, in a wet basement, or near a swimming pool.
- This product should never be placed near or over a radiator or heat register. This product should not be placed in a built-in installation unless proper ventilation is provided.
- This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your dealer or local power company.
- Do not locate this product in an area where the power cord is likely to be damaged by furniture or foot traffic.
- Do not overload outlets and extension cords as this can result in the risk of fire or electric shock.
- Never push objects of any kind into this product through Base Unit slots as they may touch dangerous voltage points or short out parts that could result in a risk of fire or electric shock. Never spill liquid of any kind on the product.
- To reduce the risk of electric shock, do not disassemble this product, but take it to qualified service personnel when service or repair work is required. Opening or removing covers may expose you to dangerous voltages or other risks. Incorrect reassembly can cause electric shock when the product is subsequently used.
- Avoid using telephone equipment during an electrical storm. There may be a remote risk of electric shock from lightning.
- Do not use the telephone equipment to report a gas leak in the vicinity of the leak.
- Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
  - When the power supply cord or plug is damaged or frayed.
  - If the product has been exposed to liquid.
  - If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions because improper adjustments of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to normal operation.
  - If the product has been dropped or the Base Unit has been damaged.
  - If the product exhibits a distinct change in performance.
- Never install telephone wiring during a lightning storm.
- Never install telephone jacks in wet locations unless the jack is specifically designed for wet locations.
- Never touch uninsulated telephone wires or terminals unless the telephone line has been disconnected at the network interface.
- Use caution when installing or modifying telephone lines.
- This product is intended to be supplied by a Listed Class 2 Direct Plug-In Power Unit, rated at an output voltage of 9 VDC at 500mA.
- This product requires AC power in order to operate. In order to have phone service during a power outage, have another headset available that is powered only by the communications equipment.
- Keep all product cords and cables away from operating machinery.

## BATTERY PACK PRECAUTIONS

**CAUTION:** To reduce the risk of fire or injury to persons, read and follow these instructions.

- Use only the battery pack supplied with this product.
- Do not dispose of battery pack in a fire. The cells may explode. Check with local codes for possible disposal instructions.
- Do not open or mutilate battery pack. Released electrolyte is corrosive and may cause damage to eyes or skin and may be toxic if swallowed.
- Exercise care in handling the battery pack in order not to "short" the battery contacts with conducting materials such as rings, bracelets, and keys. The battery or conductor may overheat and cause burns.
- Charge the battery pack in accordance with instructions supplied with this unit.
- Observe proper orientation between battery pack and charger contacts.

## SUPPLIES & ACCESSORIES

AC Adapters  
North America (shown):  
64401-03

European Union and  
United Kingdom:  
38640-01 (not shown)

Australia: 66804-01  
(not shown)

Console Interface Cable 68331-01  
6 wire, modular-to-PJ7 cable assembly  
Connectors other than the PJ7 are  
available upon request



Remote  
North America  
201059-01  
UPCS  
(DECT 6.0)

Countries outside  
of North America  
201059-02 (DECT)

Please note that the older spare  
Remotes (PNs 80323-01 and  
80323-02) will not work with the  
CA12CD-S

Battery Pack  
80322-01



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