

CM-16 Technician Installation Guide

This step-by-step guide is designed to provide complete installation details for the Aastra CM-16 cordless telephone.

CM-16 Installation

The CM-16 consists of a base station, wireless handset and a charging base stand. When properly installed, it can simulate and be configured as a digital set such as the M2616.

The System Administrator must be aware of the Meridian settings required to make this telephone fully operational.

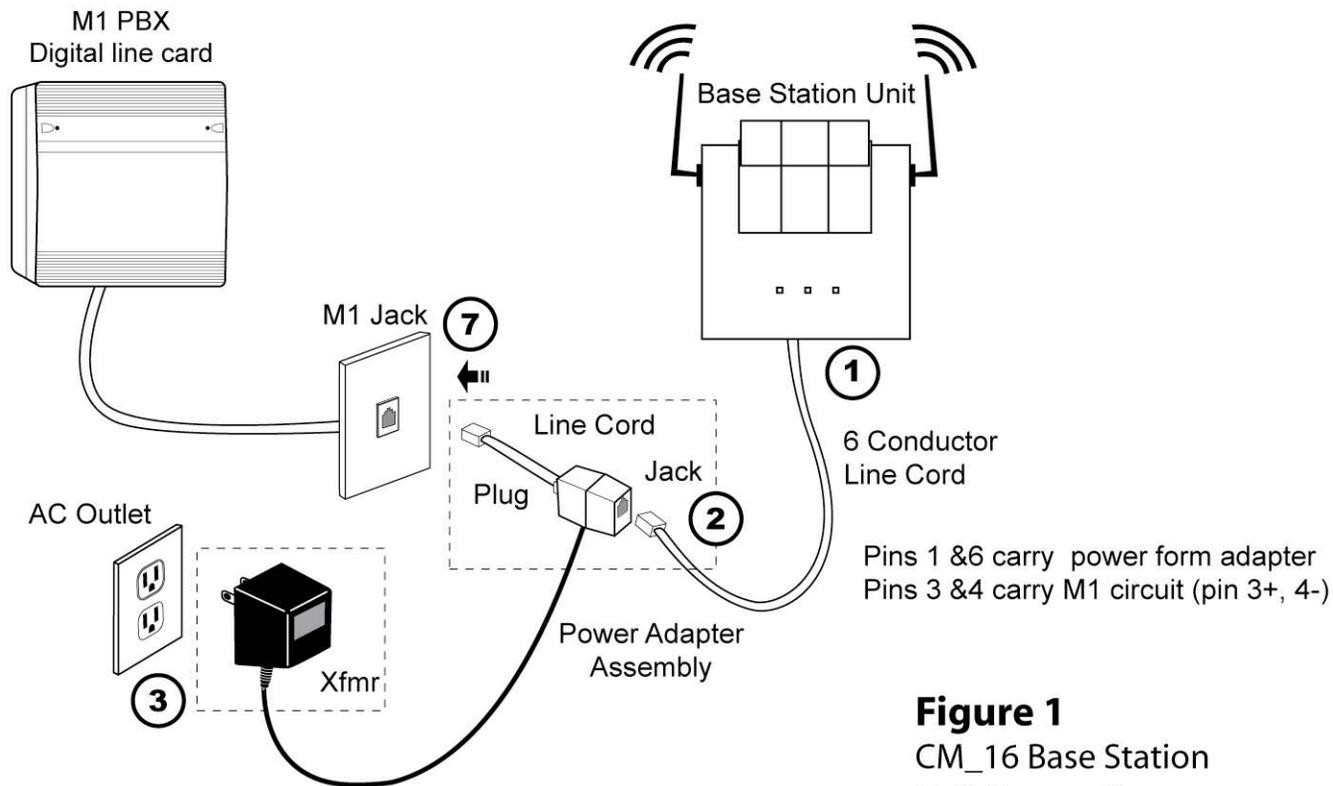


Figure 1
 CM_16 Base Station
 Unit Connections

Figure 2 Handset Preparation

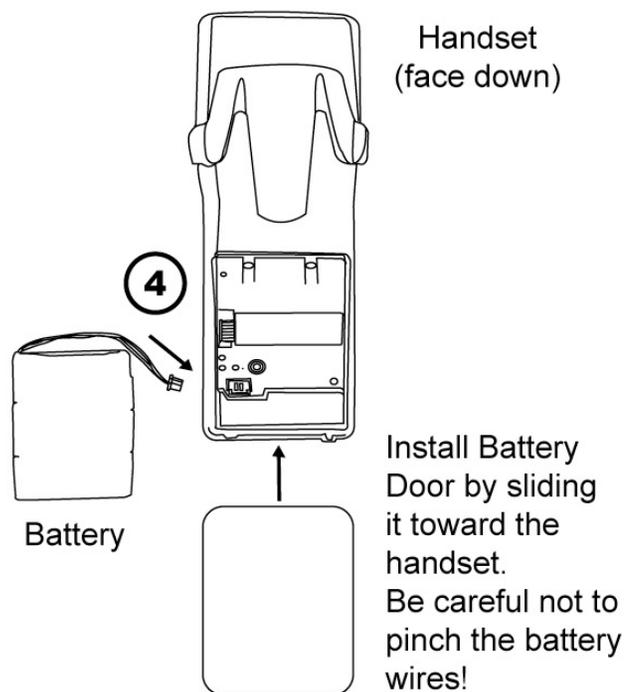
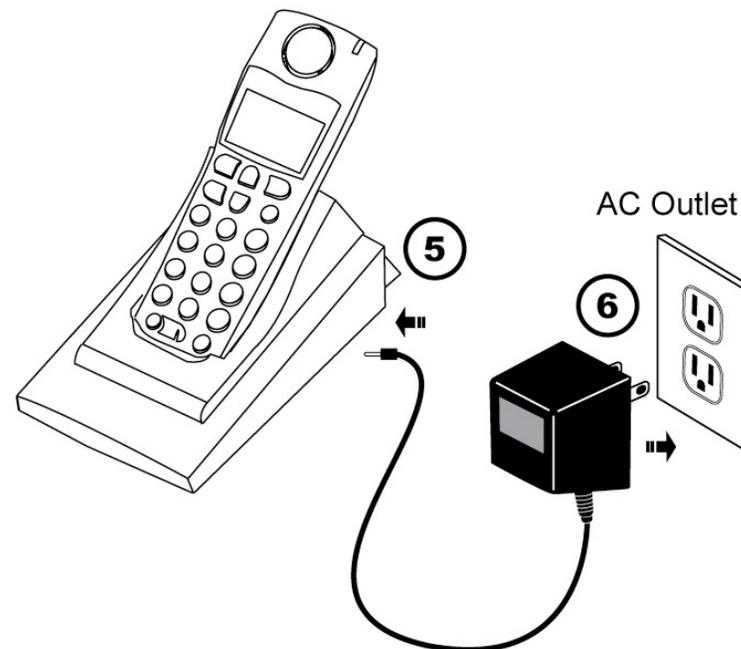


Figure 3 Charging Cradle Preparation



Pre- Installation Requirement: Configure an M1 Digital Line Port and wall jack for the CM-16

The Base Station Unit will not operate unless connected to a “working” M1 digital line card and the Handset battery will not charge unless the Base Station is properly connected.

- The Base Station Unit must be connected to a digital M1 line card and configured as per the M20xx, M2616 or M39xx (M39xx feature function keys will not be represent on the CM-16, however the permanent program keys will be available).
- Once you have configured the digital line, you can test the digital line/jack using a M2616 or M2008 or other.
- The polarity of the M1 digital line circuit must be correct as shown in Fig. 1.
- The CM16 can be added as an extension using the second port of an existing line card.

Installation Procedure

There are seven steps required in the installation process. Please follow the steps in sequential order.

Refer to Figure 1 and connect the components in this order.

- 1) Plug one end of the 6 conductor cord (supplied) to the Base Station Unit, connection ① on Fig.1
- 2) Plug the other end of the 6 conductor cord into the jack on the Power Adapter Assembly, connection ② on Fig.1
- 3) Plug the Power Adapter Assembly into a known working AC outlet, connection ③ on Fig. 1

If the power connections are good the Base Station Unit Left LED will be very dimly lit, and the center and right LEDs will be off.

You may have to shield ambient light from the left LED with your hand to see that the LED is on.

If this LED it is not on, there is either a problem with the power connections or line cords or the AC outlet is not working. Correct the problem before continuing.

- 4) Place the battery in the compartment and slide the door closed as shown in Fig. 2
The handset should display CM-16 briefly and then go to idle screen with date and time displayed.
The date and time will change to the M1 system values after step 7.

- 5) Plug the modular cord of the “cradle power adapter” into the jack on the bottom of the cradle. Route the cord through the retaining tabs of the molded cord slot. Verify the cradle rests properly and doesn’t wobble.
- 6) Plug the charging cradle transformer into a known working non-switched AC outlet as shown in Fig. 3.
- 7) Refer to Fig. 1 - Connect the short line cord tail of the power adapter assembly to the M1 wall jack. The CM-16 should power up with this connection, so check for the following Base Station Unit and Handset ICON indications.

Base Station Unit LEDS

If all connections are correct to this point, the right LED will start blinking (and continue blinking for about 40 seconds as the Base Station Unit scans for its Handset). This blinking right LED also indicates the radio circuit is fully powered. The left LED will now be on steady indicating power from the M1 digital line card is present. The center LED will blink twice per second indicating that the M1 is communicating with the CM-16. If you do not see all of these indicators, repeat steps 1,2,3 and 7 to find the problem.

Handset ICON

Check for the Antenna ICON to display in the handset – just to the right of the battery icon.

Place a test call...

From another M1 station, call this DN and answer the call by pressing the Handset Key (to the left of the “M” key). Verify the transmission and hang up by pressing the key to the right of the “M” key.

- 8) **Important:** Use the handset until the battery is fully discharged and then place the handset in the charging cradle.
 - There is no power light on the cradle. You must check the handset battery icon.

NOTE:

When the handset is placed in the cradle the first time, or if the battery was fully discharged, or if you unplug and reconnect a battery, the battery icon will blink with four bars from left to right to indicate that the battery is being charged.

After 4 hours the 4 bars will be on steady indicating a full charge condition.

Key Label

The Key label option gives access to the display text associated with the 14 Meridian features that can be programmed on the

CM-16 handset. Text to identify a specific feature can be added, modified or deleted or all feature key text can be deleted at once. Labels can have up to 14 characters.

Press the “**M**” key when the phone is not in use — the display will indicate Use ▲ ▼ to view, and then press the “**F**” or “**M**” keys to scroll to the Option 2 – Key label.

To edit key label text

1. Press the **Change** softkey from the key label display
 - At the Edit display screen, press **Select** softkey — this will display the key label 00
 - Use the scroll keys to find the feature key desired
2. Press the Edit softkey
 - Use the keypad to type out a new label or use the scroll keys “**F**” up and “**M**” down to move the cursor to the desired display position or to erase text.
 - The **ChCase** softkey changes the screen text between Upper and Lower case.
 - The **Save** softkey saves changes made
 - Use the  key at any time to exit the option menu.

Note: In editing mode, the Volume Bar can be used in place of the (F and M) keys to control the screen cursor

- Press the Lower end volume bar for Backspace/Erase
- Press the Higher end volume bar to add a Space

To delete a single key label

1. Press the **Change** softkey from the key label display
 - At the Edit display screen
 - Press **Select** softkey — this will display the key label 00
 - Use the scroll keys to find the feature key desired
 - Press **Delete** to delete the text associated with the feature

To delete all feature label text

2. Press the **Change** softkey from the key label display
 - Press the “**M**” key to move to the Delete All option display
 - Press **Select** softkey — display indicates Press delete to confirm
 - Press **Delete** softkey to delete all labels

HANDSET AND BASE STATION INSTALLATION AND SAFETY ADVICE INFORMATION

- The CM16 is proprietary to Nortel M1 Switch.
- The CM16 is not design to support ACD mode and remote office (off-premise) applications.
- CM16 Base Station units should be at least 12 feet between each other, including WiFi, to prevent interference and poor quality voice communication.
- Do not rely only on this telephone as your only means of communication in the event of an emergency. As this handset uses radio signals, a connection to the telephone network cannot be guaranteed in all circumstances.
- Do not use this handset near medical equipment such as pacemakers.
- Do not place the handset in areas subject to explosive hazards, flammable liquids or gases.
- Do not set up and use the handset close to devices that emit electromagnetic fields (i.e. electric motors, household appliances, fluorescent lamps, computers, radios, televisions, VCR's, DVD's etc.) Operation of the handset could be adversely affected if exposed to such fields and, at minimum, subject to interference and poorer quality voice communication.
- Do not locate the handset and base station near water, moisture, damp areas, heat sources, direct sunlight, areas with excessive dust, vibration or temperature extremes.
- Do not clean the handset using any chemical or commercial cleaner. Use only an anti-static or soft moistened cloth to clean the handset. Disconnect the charger stand prior to cleaning.