

# **CIB 2866**Auxiliary Power Unit

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# CIB 2866 Auxiliary Power Unit

When the number of voice terminals and voice terminal accessories (including hands-free units and headset adapters) is greater than your MERLIN® Communications System's capacity, connect an Auxiliary Power Unit (Figure 1) to supply your MERLIN system with additional power.

The Auxiliary Power Unit is for use with the MERLIN® Communications System Models 1030 and 3070 and the MERLIN II system.

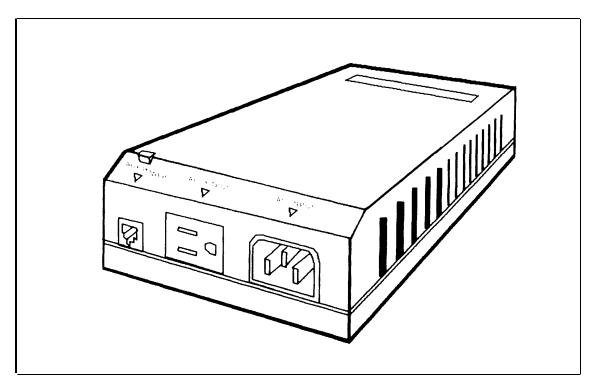


FIGURE 1 The Auxiliary Power Unit

The following components come with the Auxiliary Power Unit:

**NOTE:** For MERLIN II system installations, use a 7-foot D4CH (Order Number 61407) modular line cord or a D4BU (Order Number 2725-02G) modular line cord. Do not use the auxiliary power cord supplied.

- AC line cord
- Auxiliary power cord
- Hardware kit (for wall-mounting).

# **Installing the Auxiliary Power Unit**

Refer to the table below to select an appropriate installation method for your Auxiliary Power Unit, depending on the model of your MERLIN system. Separate installation instructions follow the table for each method.

If your system is a:	Use one of these installation methods:
MERLIN Model 1030 or 3070	Shelf or desk-top mounted to the left (or in front) of the control unit.
	<ul> <li>Mounted on the back of the control unit or expansion unit.</li> </ul>
	Wall-mounted to the left of the control unit.
MERLIN II	Wall-mounted to the left of or below the unit's basic carrier (depending on available space).

#### SHELF OR DESK-TOP MOUNTING

Place the Auxiliary Power Unit on a shelf or desk as close as possible to the auxiliary power jack on the power module to which it will be connected.

#### 1030 OR 3070 CONTROL UNIT MOUNTING

The Auxiliary Power Unit may be mounted on the back of a control unit or expansion unit whether or not they are wall-mounted. (It is not necessary to remove wall-mounted units from the wall.)

- 1 Hold the Auxiliary Power Unit so the AUX POWER, AC OUTPUT, and AC INPUT connectors are facing downward.
- 2 Place the keyhole slots on the bottom of the Auxiliary Power Unit over the control unit or expansion unit mounting hooks.

#### **WALL-MOUNTING**

Follow the steps below, using the mounting location specified for your MERLIN system in the table on Page 2.

- 1 Holding the template (provided at the end of these instructions) level, place it against the mounting location on the wall.
- 2 Using a pencil or sharp object, mark the two mounting screw locations on the wall.

3 Unpack the hardware kit and follow the instructions below for the type of mounting surface you have selected.

# For plywood walls or walls with a sturdy support structure (wood studs or crossmembers):

- A Use a 1/16" drill bit to drill pilot holes at both of the marked mounting screw locations.
- B Place the mounting plate against the wall and align its screw holes with those in the wall.
- C Insert and partially thread one wood screw (provided) into each of the mounting plate's screw holes. Tighten both screws.

#### For paneled, plaster, and plasterboard (hollow) walls:

- A Use a 5/16" drill bit to drill holes at both of the marked mounting screw locations.
- B Select the proper sized toggle bolts for the wall thickness:
  - For walls 3/8" to 1/2" thick, use the smaller of the two sizes of toggle bolts.
  - For walls 5/8" to 3/4" thick, use the larger of the two sizes.
- C Fold the screw anchor (Figure 2A) and insert one anchor into each of the drilled holes. Tap each anchor with a hammer until it is flush with the wall (Figure 2B).
- D Insert the red key (provided in the hardware kit) into the anchor, and push with your fingertip (do not force or hammer the red key) to pop open the anchor (Figure 2C). Remove the red key.
- E Place the mounting plate against the wall and align its screw holes with the anchor's screw holes (Figure 2D). Insert and partially thread the 1-3/4" screws into each of the mounting plate's screw holes. Tighten both screws.

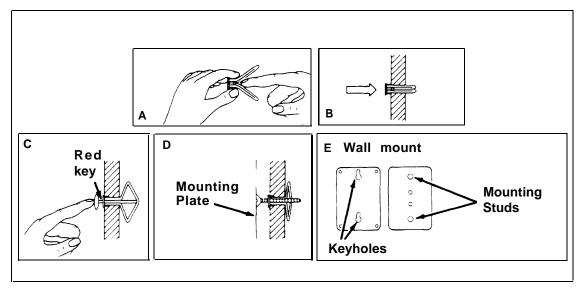


FIGURE 2 Installing the Auxiliary Power Unit On a Hollow Wall

#### For concrete, brick, and cinder block surfaces:

- A Install #6 masonry bolts (not provided) according to the manufacturer's instructions at each of the previously marked mounting screw locations.
- B Place the mounting plate against the wall and align its screw holes with the bolt's screw holes. Insert and partially thread a screw (provided with the masonry bolts) into each of the mounting plate's screw holes. Tighten both screws.
- 4 Align the keyholes on the back of the Auxiliary Power Unit with the mounting plate's studs (Figure 2E). Slide the auxiliary power unit downward until it rests securely on the mounting plate.

# **Connecting the Auxiliary Power Unit**

#### **MODEL 1030 AND 3070**

- 1 Remove the door(s) and lift the silver lid off the top of the unit.
- 2 Turn off the power switch(es) on the Power Module(s). If your system has an expansion carrier, *first turn the power off at the basic carrier's power module*. Then turn the power off at the expansion carrier's power module.
- 3 Unplug the power cord from its ac outlet and plug it into the outlet labeled **AC OUTPUT** on the Auxiliary Power Unit.
- 4 Insert the modular jack on the auxiliary power cord into the jack labeled AUX POWER on the Auxiliary Power Unit (Figure 3).

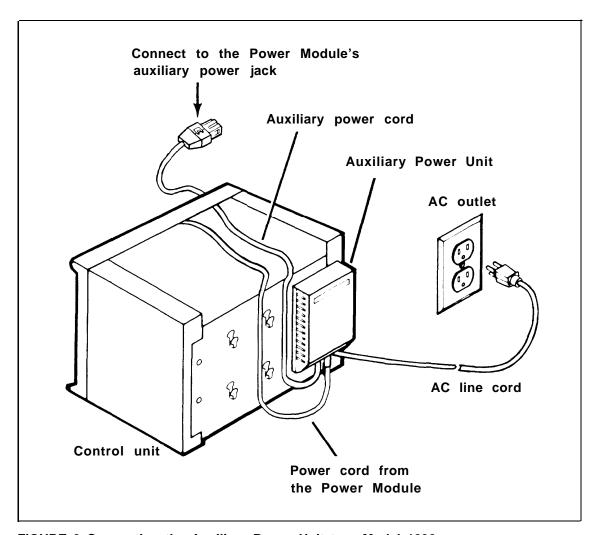


FIGURE 3 Connecting the Auxiliary Power Unit to a Model 1030

- If you mounted the Auxiliary Power Unit on back of the control unit or expansion unit, thread the auxiliary power cord through the top rail of the unit (Figure 3).
- 6 Insert the other end of the auxiliary power cord into one of the jacks labeled **AUXILIARY POWER** on the Power Module.
- 7 Plug one end of the ac line cord into the **AC INPUT** on the Auxiliary Power Unit (Figure 3).
- 8 Plug the other end of the line cord into an ac outlet that is not switch-controlled (Figure 3).
- 9 Turn *On* the power switch(es). If your system has an expansion carrier, *first* turn the power on at the expansion unit's Power Module. Then turn the power on at the basic carrier's Power Module.
- 10 Replace the silver lid and the door(s).

#### MERLIN II

- 1 Remove the front cover.
- 2 Turn off the power switch(es) on the Power Module(s). If your system has an expansion carrier, *first turn the power off at the basic carrier's power module*. Then turn the power off at the expansion carrier's power module.
- 3 Unplug the power cord from its ac outlet and plug it into the outlet labeled **AC OUTPUT** on the Auxiliary Power Unit (Figure 4).

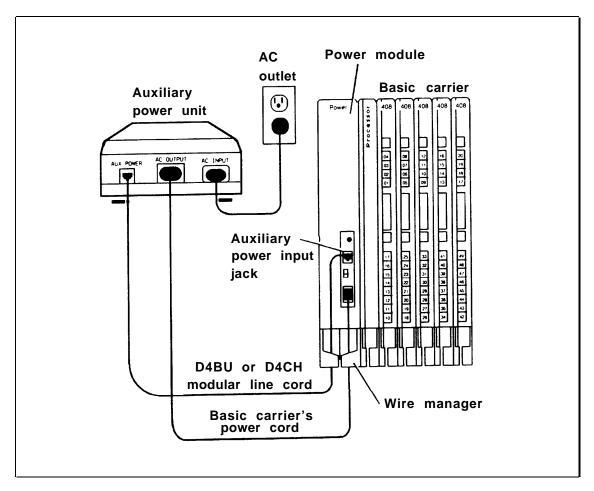


FIGURE 4 Connecting the Auxiliary Unit to MERLIN II

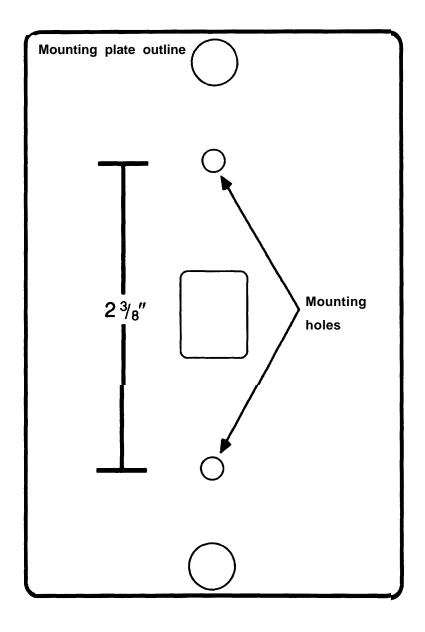
- 4 Plug one end of a D4BU or a D4CH modular line cord into the jack labeled **AUX POWER INPUT** on the Power Module (Figure 4). Thread the cord through the module's wire manager.
- 5 Plug the other end of this cord into the jack labeled **AUX POWER** on the Auxiliary Power Unit (Figure 4).
- 6 Plug the other end of the ac line cord into the **AC INPUT** on the Auxiliary Power Unit (Figure 4).

- 7 Plug the other end of the line cord into an ac outlet that is not switch-controlled (Figure 4).
- 8 Turn *On* the power switch. If your system has an expansion carrier, *first turn the power on at the expansion unit's Power Module*. Then turn the power on at the basic carrier's Power Module.
- 9 Replace the front cover.

# **Template**

To remove this template:

- 1 Cut along dotted line.
- 2 Tear lower portion of page out of booklet.



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