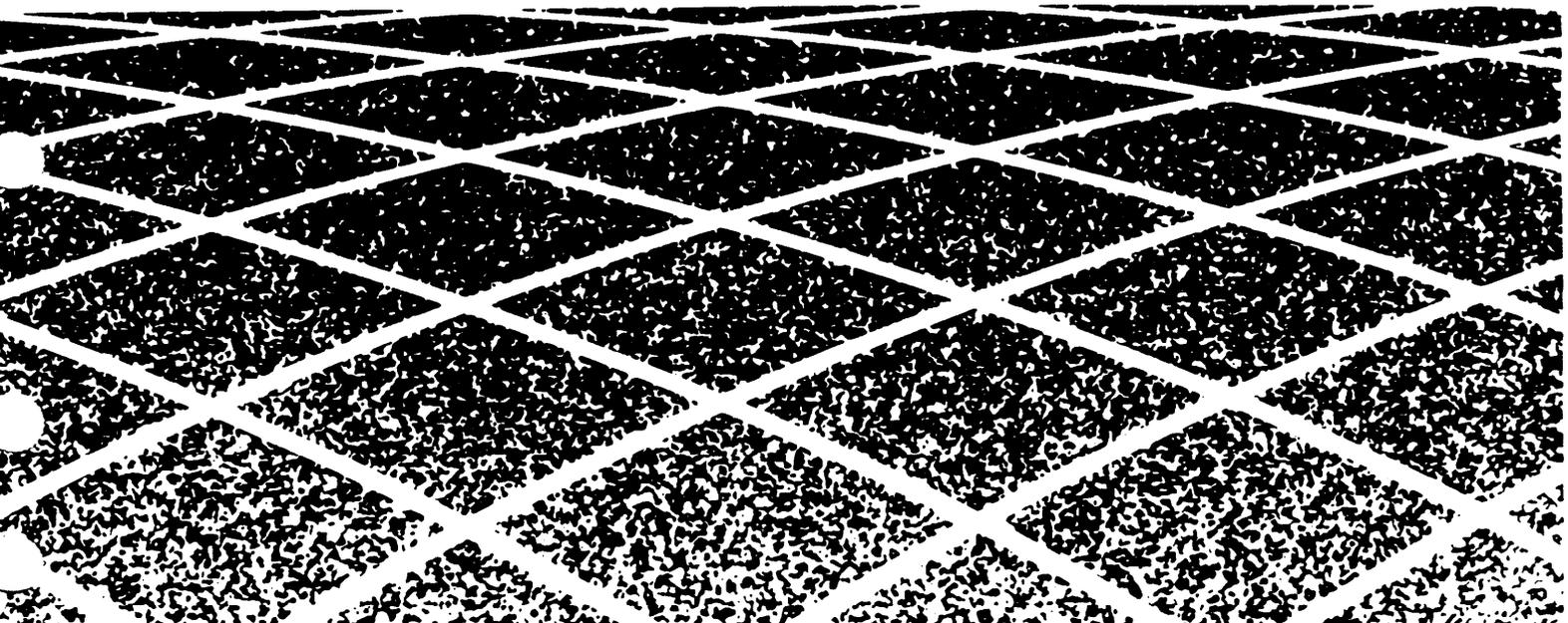




**585-247-202**  
January 23, 1992

**Call Accounting Terminal  
(CAT Basic  
For Partner<sup>®</sup> II  
Communications System  
Installation and Use**



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# Introduction

# 1

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The AT&T CAT Basic For PARTNER® II provides a simple-to-use interface to a sophisticated, in-house call costing and reporting system. The CAT Basic collects call activity data directly from the Station Message Detail Recording (SMDR) output of your Communications System and automatically stores, processes, and organizes the data into meaningful reports for effective cost management.

## Capabilities

The AT&T CAT Basic For PARTNER II offers a comprehensive variety of applications:

**Control Misuse and Abuse:** Usage reports for each extension shows if long distance facilities are being used economically

**Employee Productivity:** The number and length of calls handled by each employee can be related to the number and amount of sales. This is an excellent way to evaluate employee performance.

**Cost Allocation:** Extension and/or account number summary reports provide easy tracking of company-wide telephone usage to accurately allocate telephone costs by department, division, or product.

**Network Optimization:** Records of call patterns help optimize network facilities for better cost effectiveness and lower long distance costs.

**System Diagnostics:** The Summary by Facility report helps identify out-of-order lines and failure of your Communications System's Automatic Route Selection (ARS) to place long distance calls over the most economical route available.

**Resale of Telephone services:** In dedicated resale and sharing operations, call reporting by extension can help to make the Communications System one of your most profitable investments.

## Report Printing

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Reports can be printed

- on demand
- automatically, when the system reaches 90% capacity
- automatically, once each day

If desired, individual call records can be printed on-the-fly as each call is completed.

## Report Information

---

There are four reports available:

- **Summary by Hour**— lists the number of calls, total duration, and total cost for each hour of the day.
- **Summary by Facility**- lists the number of calls, total duration, and total cost for each Central Office trunk or special facility.
- **All Extension Detail**- lists the detail of each call in a separate report for each extension.
- **Summary by Extension**- lists the number of calls, total duration, and total cost for each extension.

### Custom Features

Some of the many custom features are:

- **Percentage Markup:** Markups can be added to either long distance calls or to both local and long distance calls.
- **Print On-the-Fly:** Individual call records can be printed as each call is completed and saved until daily reports.
- **New Page Option:** For reports that will be distributed, each extension can begin on a new page. For reports that will not be distributed, printing continuously can save paper.
- **Minimum Duration of Calls:** To detect extreme abuse, or just to avoid billing for very short calls, call printing can be eliminated for calls less than a user specified minimum duration.
- **Print Local Calls:** Printing of outgoing call records can be limited to long distance only, or can include local calls.
- **Print Inbound Calls:** Printing of call records can be limited to outgoing calls only, or can include inbound calls.
- **Night Discounts:** Evening and night discounts can be applied to local and long distance calls. Discounts can also be applied across-the-board when necessary.
- **Call Costing:** The Read Only Memory (ROM) contains AT&T long distance tariffs for the location of the Communications System. Each user can set a mark-up for calls at to make a profit on reselling calls to clients or guests.

- **Special Call Pricing:** Prices for special calls can be assigned as follows:
  - Operator Assisted Calls: by the call
  - 411 Calls (local directory assistance): by the call
  - 555 Calls (long distance directory assistance): by the call
  - 800 Calls: by the call
  - 900 and 700 Calls: by the minute
  - Flat Surcharge: by the call for local and/or long distance

---

## **Installing the Call Accounting Terminal and Printer**

# **2**

---

The AT&T CAT Basic can only be used with the PARTNER II Communications System.

This chapter provides complete instructions for installing the CAT Basic with the PARTNER II Communications System, and also provides complete instructions for installing the CAT Printer.

## Installing the Call Accounting Terminal and Printer

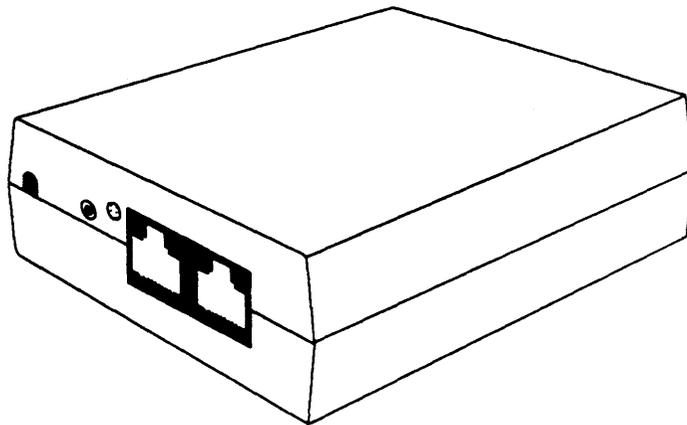
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### General Description

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The AT&T CAT Basic is a small, self-contained unit that operates with an existing Communications System to provide cost accounting information. It requires connections to power, to the Station Message Detail Recording (SMDR) output of the Communications System, and to the CAT Printer. It collects, stores, organizes, and prints data about telephone calls in convenient reports that can be used for many administrative and billing purposes. The unit is shown in Figure 2-1.

---



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**Figure 2-1.** AT&T CAT Basic

## Installing the Call Accounting Terminal and Printer

---

### Lamps

A single, green Light Emitting Diode (LED) is located on the rear of the unit. The green LED indicates that power is connected. The internal strapping of the CAT Basic can be temporarily changed so that the LED indicates that data is being received from the Communications System SMDR output.

### Alarms

There are two alarms that indicate that attention is required. The alarms are signalled by an audible beeping signal:

- **Printer Stalled:** a continuous beeping sound indicates that the printer is not responding properly because of an out-of-paper condition or another printer problem.
- **85% Full:** A single beep for each call indicates that the storage capacity of the CAT Basic is 85% used. (1050 calls have been stored in the system.) This is an indication that the reports should be run.

### Capacities

The CAT Basic has the following capacities:

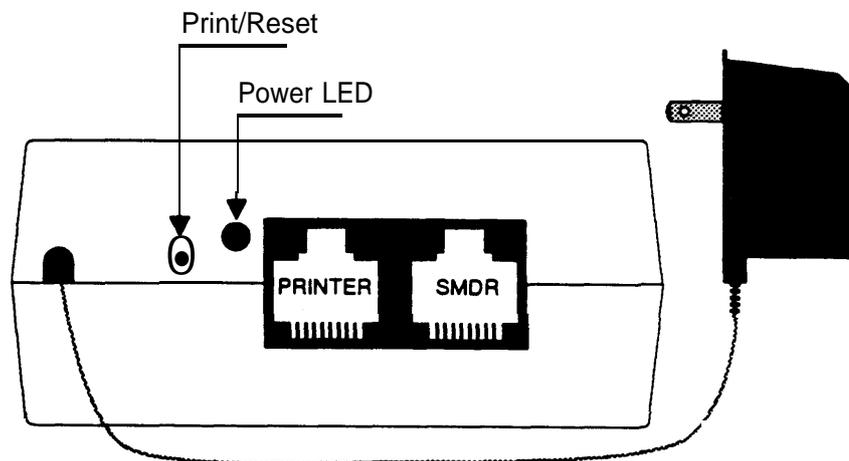
- **Call Detail:** 1250 automatically collected call detail records
- **Extensions:** 50 automatically collected four-digit extensions numbers
- **Lines or Trunks:** 20 lines or trunks
- **Battery Backup:** 24-hour battery-backed call record storage (battery must be fully charged)

## **Rear Panel**

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The rear panel connections for the printer and the Communications System, and a reset switch. The reset switch is also used to request report printing.

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**Figure 2-2.** CAT Basic Rear Panel

Both the serial printer and the SMDR connect through 8-position modular jacks.

### **Pre-Installation Steps**

installing the AT&T CAT Basic is very easy. No special tools are needed except a small (1/8-inch), flat-blade screwdriver.

Before you start:

- Select the place where the CAT Basic will be installed. It must be located within 14 feet of the PARTNER II Communications System.
- Make sure that your Communications System SMDR output has been activated
- Make sure that you have a *non-switched* 110 volt AC outlet available on the same circuit as your Communications System, and that it has sufficient power available to plug in the CAT Basic and the CAT Printer

### **Unpacking and Inventorying Equipment**

Unpack the CAT unit, the CAT Printer, and any associated packages. You should have the following items:

- the AT&T CAT Basic for PARTNER II unit with attached power transformer
- the AT&T CAT Printer-do not plug in at this time
- a 355A 8-position modular to DB-25P adapter
- two (2) 14 foot D8W-87 8-position modular cords
- any additional equipment required for your specific installation..

## **Verifying Jumper Settings and EPROM Installation**

---

Before installing the CAT, verify that the internal jumpers have been properly set and that the EPROM containing the rate tables has been installed. Refer to Figure 2-3 while following these steps:

1. Turn the CAT unit over so that the access cover is visible.
2. Press on the access cover and slide it off.
3. Verify that the jumpers are set in the *normal* position as shown in Figure 2-3. If necessary, change the jumpers to match.
4. Verify that the EPROM is installed in the socket with the notched end of the EPROM toward the handle. If necessary, reseal the EPROM using the instructions in Figure 2-3.
5. Slide the access cover back into place.

## Installing the Call Accounting Terminal and Printer

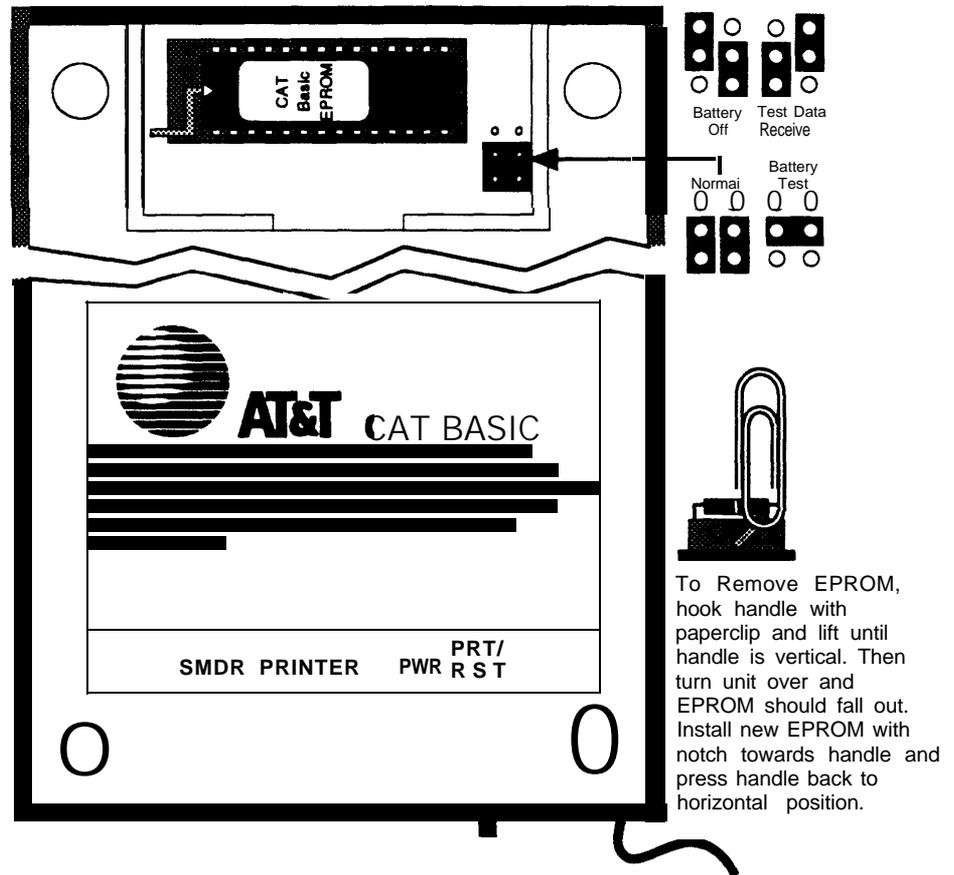


Figure 2-3. Location and Settings for Switches and Location of EPROM

### Preparing the CAT Printer



#### **CAUTION**

*Do not plug the printer in until preparations have been completed. Attempting to operate the printer with the retainer installed can damage the printer.*

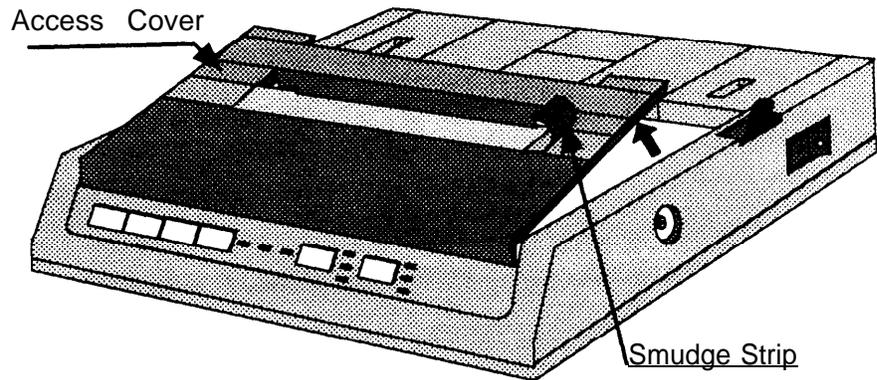
### **Unpacking**

1. Your AT&T CAT Printer is packed in a protective container along with some supplies and accessories. Lift the printer together with the styrofoam packing materials from the box and place it on a convenient table, desk, or printer stand. Remove the styrofoam side pieces and check the box for these contents:
  - Ribbon Cartridge
  - Platen Knob
  - Power Cord
  - Paper separator
  - Access Cover (on the printer)

## Installing the Call Accounting Terminal and Printer

---

2. Lift off the access cover and remove the clear smudge strip from the cover.
- 



**Figure 24.** Removing Access Cover and Smudge Strips

## Installing the Call Accounting Terminal and Printer

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3. Remove the plastic retainer that secures the print head during shipment. Save it in case you ever need to ship the printer.

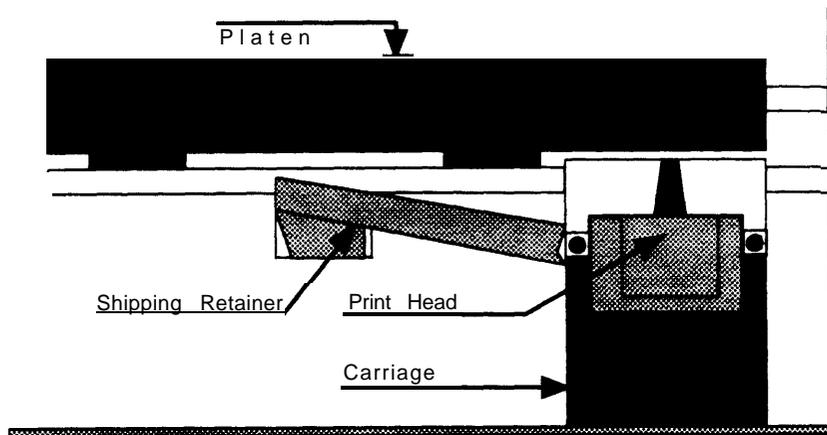
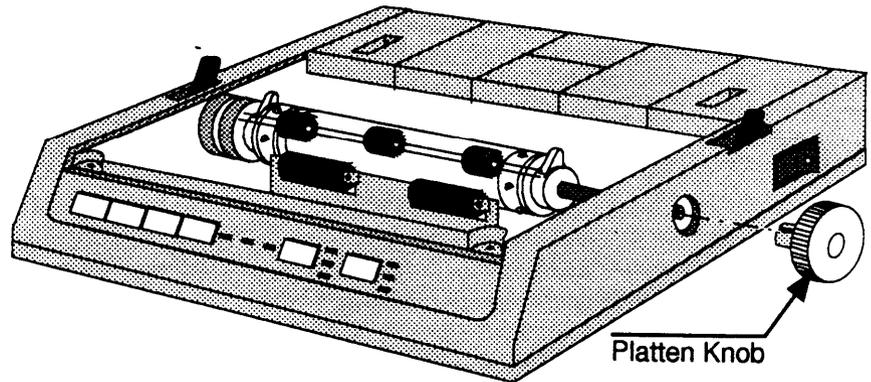


Figure 2-5. Location of Shipping Retainer

## Installing the Call Accounting Terminal and Printer

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4. Insert the platen knob in the hole on the right side of the printer, lining up the notch in the knob with the pin on the shaft.



**Figure 2-6.** Inserting Platen Knob

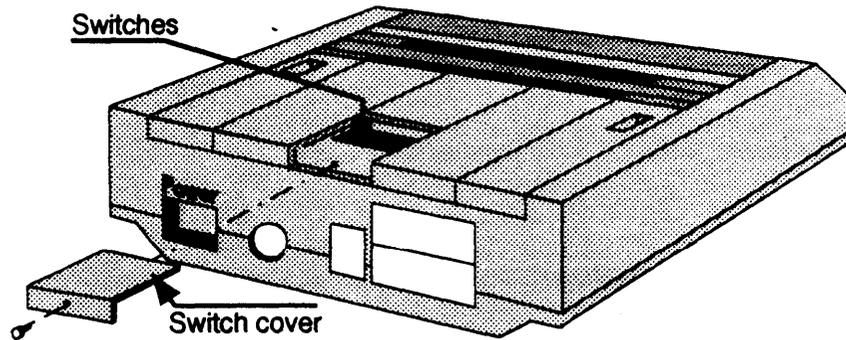
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## Installing the Call Accounting Terminal and Printer

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### Verifying the Internal Switches

1. Turn the printer around and remove the screw holding the switch cover in place. Remove the switch cover.

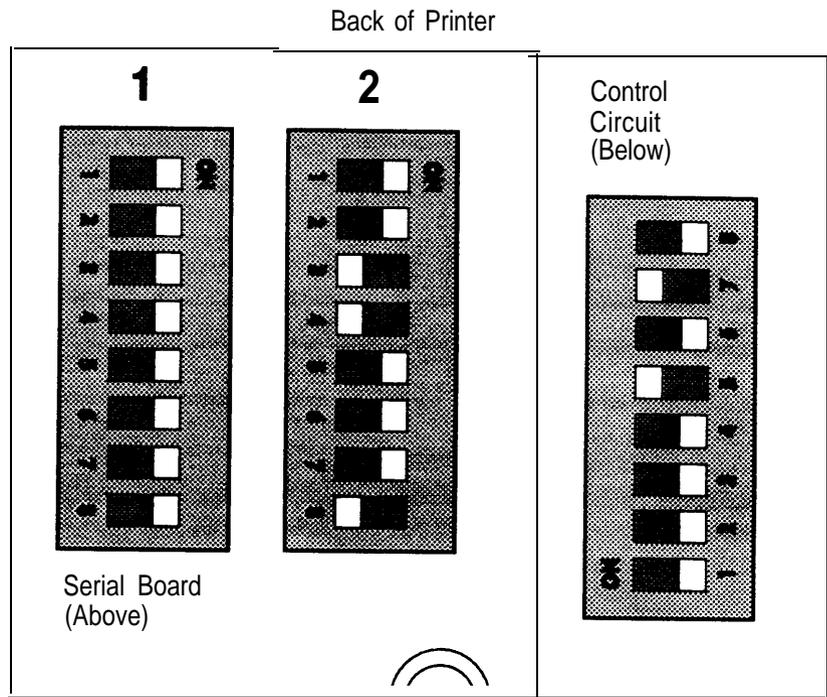


**Figure 2-7.** Removing the Switch Cover

2. Verify that the switches are set as shown in Figure 2-8. If necessary, change the switches to correspond to the settings shown in Figure 2-8. Refer to Appendix C for switch meanings.
3. Replace the switch cover and tighten the screw.

# Installing the Call Accounting Terminal and Printer

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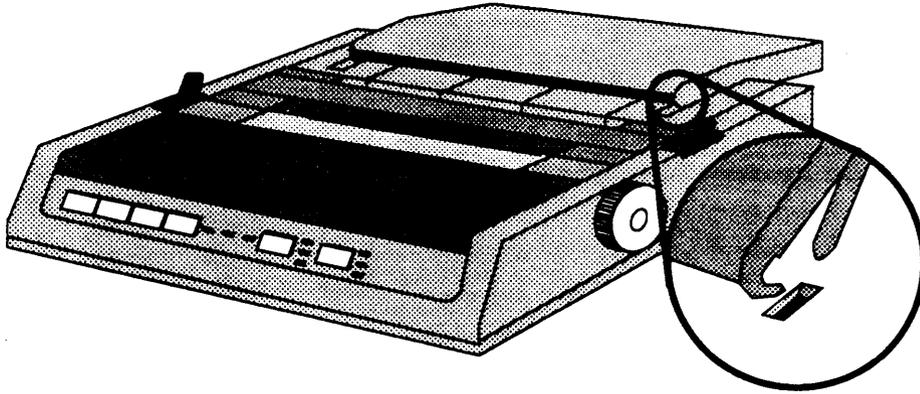
**Figure 2-8.** CAT Printer Switch Settings

## Installing the Call Accounting Terminal and Printer

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### Installing the Paper Separator

1. Holding the paper separator at an angle to the top of the printer, insert the tabs into the slots on the top of the printer as shown in the detail blow-up in Figure 2-9.
2. Slide the paper separator towards the back of the printer so that the tabs fit securely in the slots.



**Figure 2-9.** Installing the Paper Separator

3. Press the back of the paper separator down so that it lies flat on top of the printer.

# Installing the Call Accounting Terminal and Printer

---

## Installing the Ribbon Cartridge

1. Center the print head so that it is away from the bail rollers. Make sure that the bail is closed. (The lever on the left side of the printer should be pushed towards the back.)



### **CAUTION:**

*If the ribbon cartridge is inserted when the print head is at either end of the platen, or is directly opposite a bail roller, the ribbon shield may be damaged.*

2. With the knob side up, tilt the back of the ribbon cartridge onto the carriage so that the pins on the sides at the back of the carriage slip into the slots on the sides at the back of the ribbon cartridge.

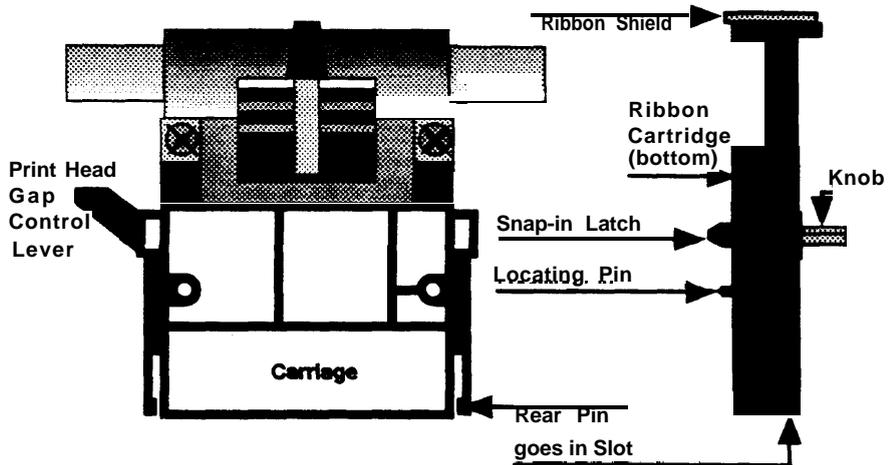


### **NOTE**

If the ribbon will not load easily, turn the blue knob slightly until the x-shaped notch on the bottom of the ribbon cartridge aligns with the x-shaped insert on the ribbon plate.

## Installing the Call Accounting Terminal and Printer

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**Figure 2-10.** Inserting the Ribbon Cartridge

3. To seat the ribbon cartridge, press down on the cartridge at the two arrow heads at the sides of the print head opening.

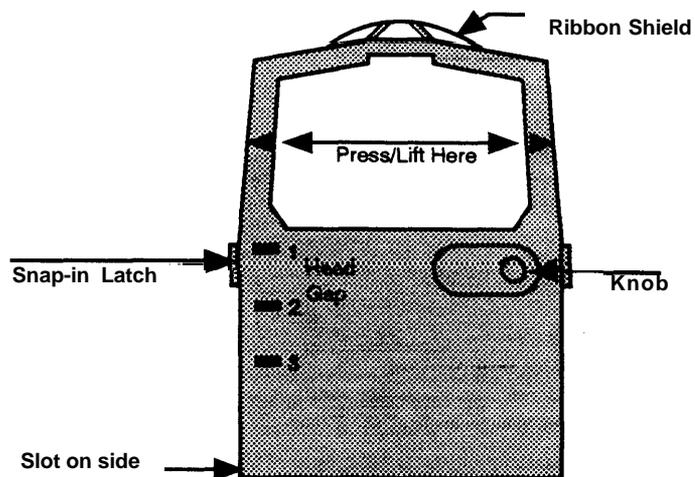


### NOTE

Do not remove the clear plastic ribbon shield from the ribbon cartridge.

## Installing the Call Accounting Terminal and Printer

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**Figure 2-11.** Ribbon Cartridge, Top View

4. To remove the cartridge, slide the print head away from the rollers, grasp the cartridge on both sides at the arrow heads, and lift off.

# Installing the Call Accounting Terminal and Printer

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## Setting the Print Head Gap Lever

Before you load paper, be sure to set the blue print head gap level (located to the left side of the print head and shown in Figure 2-11) to the correct position as shown in Table 2-1

Table 2-1. Print Head Gap Lever Setting

---

<b>Paper Type</b>	<b>Print Head Gap Lever Setting</b>
1-parlor 2-part	1
3-part or 4-part	2
extra thick	3

---

## Installing the Call Accounting Terminal and Printer

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### Loading Paper for Bottom Feed

You can use bottom feed only if you have a slotted printer stand that is designed for bottom feed. To load paper for bottom feed, follow these steps:



**NOTE:**

Use only fan-fold, pin-feed paper with the CAT Printer.

1. Set the printer on a slotted printer stand with the opening in the base of the printer aligned with the slot on the printer stand.
2. Place the paper under the printer stand.
3. Lift off the access cover.
4. Move both the paper lever (on the right side of the printer) and the bail lever (on the left side of the printer) forward.
5. Slide the first sheet of paper through the opening in the base of the printer.
6. Using the platen knob, engage the sprocket holes with the pins. If the pins need adjusting, pull the tabs forward and slide the pins left or right to accommodate the width of the paper. Lock the tabs when the pins are the proper distance apart.

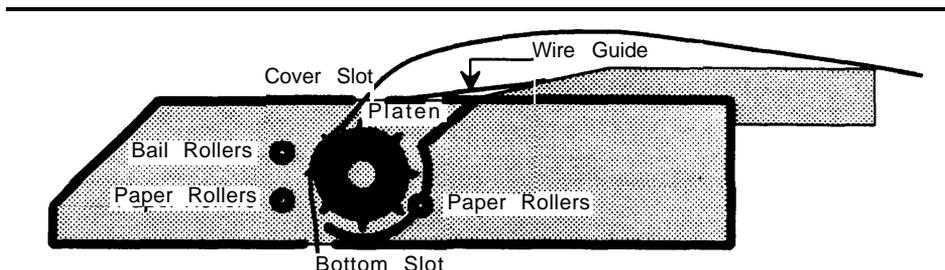


**NOTE:**

Do not stretch the paper. If the sprocket holes stretch or tear during printing, readjust the pins.

## Installing the Call Accounting Terminal and Printer

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**Figure 2-12.** Loading Paper for Bottom Feed

7. Close the bail by moving the bail lever (on the left side of the printer) towards the back.



### **CAUTION**

*The paper lever (on the right side of the printer) must be left forward or the sprocket holes will tear.*

8. Using the platen knob, advance the paper to the first line where printing is to begin.
9. Replace the access cover making sure that the paper exits through the opening. Then lower the wire guide on the paper separator to prevent exiting paper from reentering the printer.

## Installing the Call Accounting Terminal and Printer

---

### Loading Paper for Rear Feed

You can use rear feed with or without a printer stand. To load paper for rear feed, follow these steps:



**NOTE:**

Use only fan-fold, pin-feed paper with the CAT Printer.

1. Place the paper behind the printer.
2. With the paper separator laying flat on the printer, slide the guides to their widest position.
3. Lift off the access cover.
4. Move the bail lever (on the left side of the printer) and the paper lever (on the right side of the printer) forward.
5. Insert the paper in the slot in the paper separator.
6. Push the paper forward until it reaches the platen.
7. Using the platen knob, engage the sprocket holes with the pins. If the pins need adjusting, pull the tabs forward and slide the pins left or right to accommodate the width of the paper. Lock the tabs when the pins are the proper distance apart.

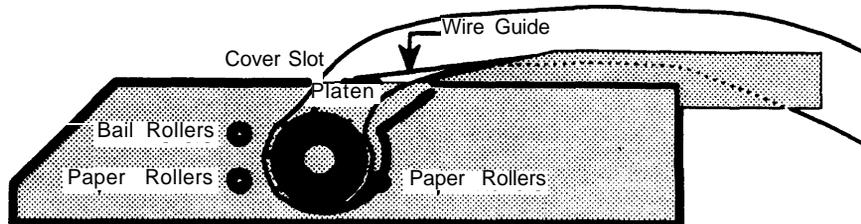


**NOTE:**

Do not stretch the paper. If the sprocket holes stretch or tear during printing, readjust the pins.

## Installing the Call Accounting Terminal and Printer

---



**Figure 2-13.** Loading Paper for Rear Feed

8. Continue advancing the paper until it reaches the front of the platen, behind the bail.
9. Close the bail by moving the bail lever (on the left side of the printer) towards the back.

### **⚠ CAUTION**

*The paper lever (on the right side of the printer) must be left forward or the sprocket holes will tear.*

10. Using the platen knob, advance the paper to the first line where printing is to begin.
11. Replace the access cover making sure that the paper exits through the opening. Then lower the wire guide on the paper separator to prevent exiting paper from reentering the printer.

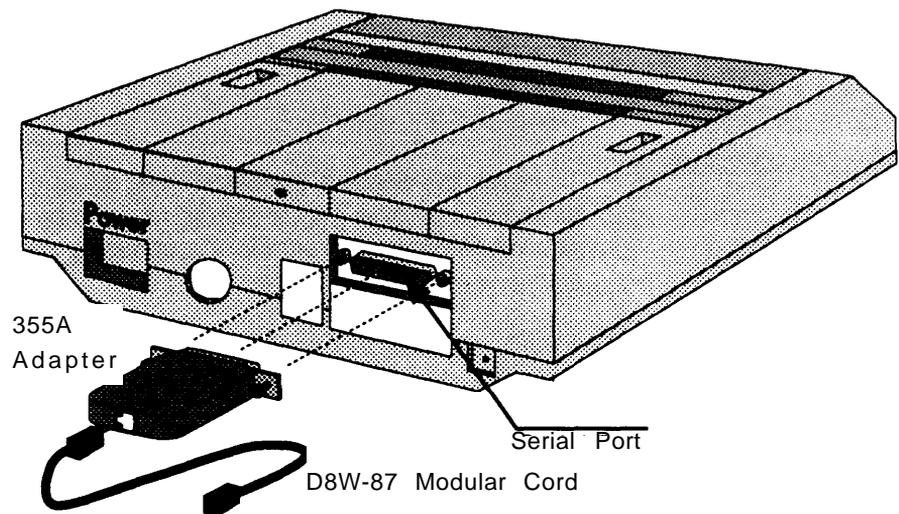
# Installing the Call Accounting Terminal and Printer

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## Connecting the Printer Cable

To connect the printer cable, follow these steps:

1. Slide the 355A adapter into the serial connector on the rear of the printer.
- 



---

**Figure 2-14.** Connecting the Printer Cable

2. Using a small screwdriver, tighten down the screws on each side of the 355A adapter.
3. Connect one end of a D8W-87 8-position modular cord to the modular jack at the back of the 355A adapter.

## Installing the Call Accounting Terminal and Printer

---

4. At the appropriate time, connect the other end of the D8W-87 modular cord to the printer modular jack on the back of the CAT PLUS.
5. At the appropriate time, connect the power cord to the back of the printer and plug the printer in.



### **CAUTION**

*Be sure the printer is turned off (switch on the right side of the printer) before connecting the power cord.*

## Testing the Printer

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To check the printer's operation, hold down the [LINE FEED] button while turning on the printer. The printer should respond by printing its entire character set several times at different sizes and quality levels.

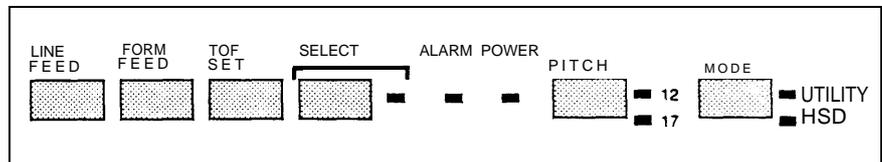
# Installing the Call Accounting Terminal and Printer

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## Operating the Printer

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The printer control panel is shown in Figure 2-15.



**Figure 2-15.** Printer Control Panel

- The [SELECT] button controls communications with the computer. Pressing this button turns the [SELECT] lamp on and off. When the lamp is on, the printer is on-line and is ready to receive data. When the lamp is out, the printer is off-line and cannot receive data from the computer.



**NOTE:**

If the printer is off-line for more than a few minutes, the CAT sounds an alarm. Be sure to put the printer back on-line after making adjustments.

- The [LINE FEED] button moves the paper up one line. The [LINE FEED] button works only when the printer is off-line.
- The [FORM FEED] button advances the paper to the top margin of the next page. The [FORM FEED] button works only when the printer is off-line.

## Installing the Call Accounting Terminal and Printer

---

- The [TOF SET] button sets the top margin at the current location of the paper. To set the top of form, use the platen knob to position the paper correctly and then press the [TOF SET] button. The [TOF SET] button works only when the printer is off-line.
- The red [ALARM] lamp indicates that the printer has run out of paper or that there is an internal problem with the printer.
- The [POWER] lamp is on when the printer is plugged in and turned on.
- The [PITCH] button controls the character size. Pressing it cycles between 10, 12, and 17 characters per inch. The corresponding lamps indicate which size is selected.
- The [MODE] button controls the print quality and speed. Pressing it cycles between Near Letter Quality (NLQ, slow), Utility (good quality, medium speed), and High Speed Draft (HSD, fast but low quality). The corresponding lamps indicate which quality/speed combination is selected.

The default settings are 10 characters per inch and Utility print quality (medium speed).

# Installing the Call Accounting Terminal and Printer

---

## Installing the CAT

Before installing the CAT, be sure that the following preparations have been completed:

- Set up the CAT according to the instructions given earlier in this chapter.
- Set up the CAT printer according to the instructions given earlier in this chapter.
- Administer the Call Reporting options for your Communications System. For additional information, refer to the *PARTNER II Communications System Installation and Use* manual.

After all preparations have been completed, install the CAT according to one of the following procedures depending on the location of the CAT.

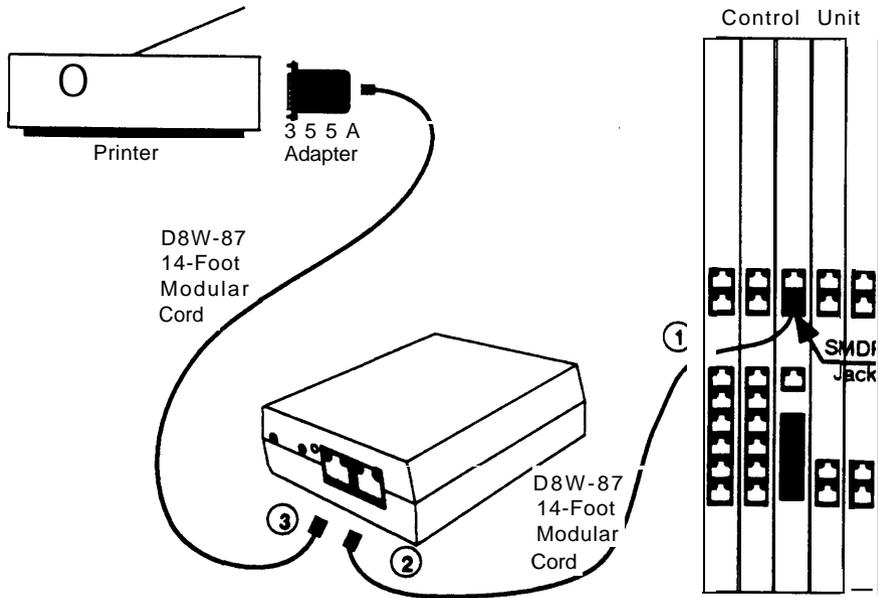
### Installation on the Same AC Outlet

Refer to Figure 2-16. To install the CAT, follow these instructions:

1. Plug one end of a D8W-87 modular cord into the SMDR jack on the Processor Module.
2. Plug the other end of the modular cord into the modular jack labeled *SMDR* on the back of the CAT.
3. Connect another D8W-87 modular cord from the printer to the modular jack labeled *Printer* on the back of the CAT.

# Installing the Call Accounting Terminal and Printer

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**Figure 2-16.** Installation on the Same AC Outlet

# Installing the Call Accounting Terminal and Printer

---

## Installation on a Different AC Outlet

For this installation, you need the following items which should have been ordered at the same time as your CAT:

- two 248B adapters
- two 355AF adapters
- two 400B2 adapters
- three (additional) D8W-87 modular cords
- two D6AP-87 modular cord
- one D8AM-87 modular cross over cable
- one M7-U87 EIA cross over cable
- one Z3A2 Tip Ring Asynchronous Data Unit (ADU)
- one Z3A4 ADU
- two 2012D power transformers

To prepare the wall jack to receive the CAT, follow instruction steps 1 through 13 illustrated in Figure 2-17. To connect the CAT to the wall jack, follow instructions steps 15 through 25 illustrated in Figure 2-18.

## Installing the Call Accounting Terminal and Printer

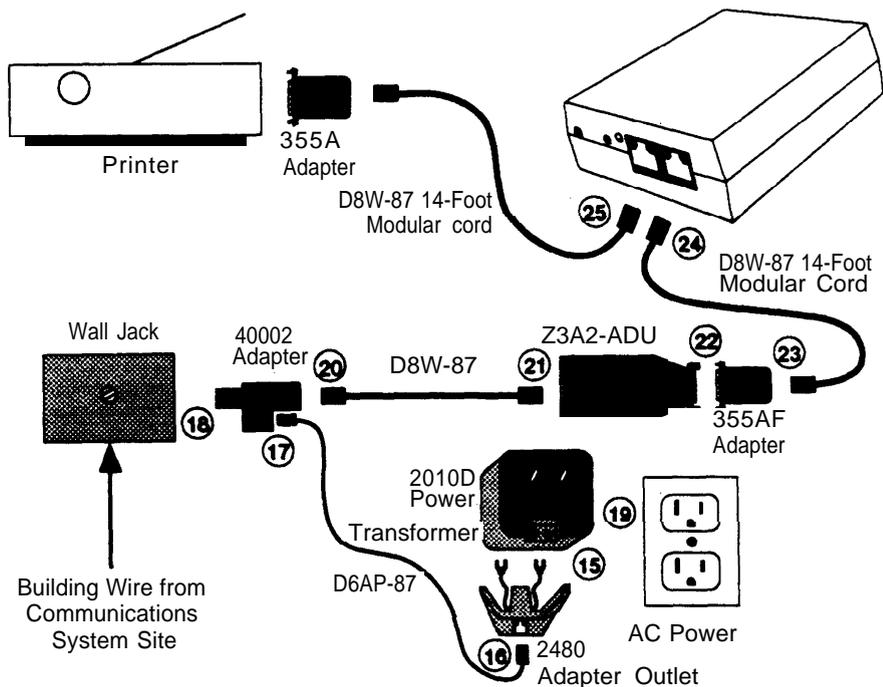
---

1. Make sure that the building wiring was installed from the Communication System to the location of the CAT. Locate the appropriate wall jack, position in the jack field that represents these wires.
2. Plug one end of a D8W-87 modular cord into the SMDR jack on the Processor Module or in the Jack Field.
3. Plug the other end of the modular cord into the modular jack on one of the 355AF adapters.
4. Connect the 355AF to one end of the M7-U87 EIA cross-over cable. Tighten the screws.
5. Plug the other end of the M7-U87 EIA cross-over cable into the matching socket on the Z3A4 ADU. Tighten the screws.
6. Plug one end of a D8W-87 modular cord into the modular jack on the ADU labeled *Wall Jack*.
7. Plug the other end of the D8W-87 modular cord into the modular jack of the D8AM-87 cross-over cable.
8. Plug the other end of the D8AM-87 cross-over cable into the top modular jack of one of the 40062 adapters.
9. Plug the 40062 adapter into the wall jack, jack field, or SIP at the position connected to the building wiring leading to your CAT location.
10. Attach the spade lugs of one of the 2486 adapters to the two screw terminals of the 2012D power transformer.
11. Plug one end of a D6AP-87 modular cord into the modular jack on the 248B adapter.



## Installing the Call Accounting Terminal and Printer

---



**Figure 2-18.** Installing the CAT From the Wall Jack

15. Attach the second 248B adapter's spade lugs to the two screw terminals on the second 20120 power transformer.
16. Plug one end of the second D6AP-87 modular cord into the modular jack on the 248B adapter.
17. Plug the other end of the D6AP-87 modular cord into the lower modular jack on the second 40062 adapter.

## Installing the Call Accounting Terminal and Printer

---

18. Plug the second 400B2 adapter into the modular wall jack.
19. Plug the 2012D power transformer into a standard ac power outlet.
20. Plug one end of the third D8W-87 modular cord into the top modular jack on the 400B2 adapter.
21. Plug the other end of the D8W-87 modular cord into the modular jack on the Z3A2 ADU labeled *Wall Jack*.
22. Connect the second 355AF adapter to the matching connector on the Z3A2 ADU. Tighten the screws.
23. Plug one of the D8W-87 modular cords that came with the CAT into the modular jack on the 355AF adapter.
24. Plug the other end of the D8W-87 modular cord into the modular jack labeled *SMDR* on the back of the CAT.
25. Connect the D8W-87 modular cord from the printer to the modular jack labeled *Printer* on the back of the CAT.

## **System Initialization**

---

After the CAT has been installed, follow these steps to initialize the system:

1. Plug the printer line cord into a standard ac power outlet.
2. Turn on the printer. The switch is on the right side.
3. Plug the power module for the CAT into a standard ac power outlet.
4. Check the green LED on the CAT to verify that power is on. If the green LED is not on:
  - verify that the ac outlet has power
  - verify that the EPROM is properly installed with the notch toward the lever
  - verify that the option jumpers near the EPROM are in the *norms/* position as shown in Figure 2-3.If the green LED is still not on, unplug the CAT power module and call for technical assistance.
5. Press the *RESET* switch on the back of the CAT.

The CAT prints:

### **Form 2-1. Reset Switch First Press**

```
IF PRINT/RESET SWITCH WAS PRESSED INTENTIONALLY  
PRESS IT AGAIN WITHIN TEN SECONDS
```

If it does not:

- verify that power to the CAT is on

## Installing the Call Accounting Terminal and Printer

---

- verify that the printer has been installed properly, is plugged in, is turned on, and is on-line.
- a continuous beeping alarm indicates *PRINTER STALLED*, check the printer cable, and verify that the paper is loaded and is not jammed

If there is still a problem, call for technical assistance.

6. Press the reset button.

The CAT prints:

### Form 2-2. Reset Switch Second Press

```
IF YOU WANT REPORTS TO BE PRINTED WAIT !
IF YOU WANT TO RESET SYSTEM PRESS SWITCH AGAIN.
```

7. Press the reset button a third time.

The CAT prints:

### Form 2-3. Reset Switch Third Press

```
SYSTEM RESET REQUESTED
```

The printer prints a line of "I"s followed by a line of "\*"s. This is followed by the Diagnostics as shown in Form 2-4.



## Installing the Call Accounting Terminal and Printer

---

If the row of "I"s does not appear, Try the sequence over again from the beginning.



### NOTE:

In the event of a short power outage, diagnostics are printed but do not contain the row of "I"s.

## Testing the System

---

The system is now ready to receive calls. Test the system by following these instructions:

1. Place several calls on different extensions and stay on the line for at least one minute, then hang up.
2. Run the reports by following the instructions in Chapter 4, *Standard Reports*.

If the reports do not print, refer to Figure 2-3 and set the jumpers so that the LED flashes for received data. Place call and see if the LED flashes. If it does not flash, check the wiring between the SMDR port on your Communications System and the CAT and check that your Communications System is administered properly. If it does flash, place another call for at least two minutes. Look for the flash when you hang up, and then run the reports. If no calls print, call for technical assistance.

### Running Diagnostics

Occasionally, you may want to run the CAT diagnostic routines to verify that the CAT is operating properly. The diagnostic function can only be run by resetting the CAT. The only time that it is safe to reset the CAT is immediately after the reports have been printed if there is no traffic on the Communications System.

When you run diagnostics, the CAT pauses for about 30 seconds while it runs memory tests. It reports any memory errors by printing the error address as a four or six-digit number. If there are no memory errors, the CAT prints the diagnostic results and setup values as shown in Form 2-5.



## Installing the Call Accounting Terminal and Printer

---

- The second line indicates the revision date and type of software.
- The third line indicates the Communications System type, the home area code and exchange, four area codes included in the costing, and the date of creation of the EPROM.
- The remainder of the report shows the current values of the setup options and parameters.

### **NOTE:**

Due to rate changes, a rate update should be ordered about once a year, or as telephone rates change, or as new area codes are introduced.

---

## Options and Parameters

# 3

---

There are 21 options and parameters that can be specified by the user and set at the factory when a costing update is ordered. This chapter describes each option and parameter in detail to help you choose settings and values that are optimum for your company's needs.

The following options and parameters may be specified.

### **01 PERCENTAGE MARKUP**

This parameter specifies the percentage to mark up the cost tables when pricing calls. To change the value specify the new percentage. If the value is less than 10 use a leading zero. For no markup, use 00. The default value is 00%. The value of this parameter interacts with *NIGHT DISCOUNT LOCAL*.

### **02 LINE SPACING**

This parameter controls the number of lines that are skipped between calls printed when *ON THE FLY* call printing is active. If spacing between printed calls is required, specify a two digit value from 01 to 99. The default value of 00 prints calls on consecutive lines with no extra space.

### **03 MINIMUM DURATION TO PRINT CALLS**

This parameter specifies the minimum duration in minutes that a call must have to be printed either in the reports or when *ON THE FLY* call printing is active. Specify a 2-digit value from 00 to 99. The default value of 00 causes all calls to print. Calls that do not print are still retained in the totals.

### **04 NIGHT DISCOUNT LOCAL**

This option controls whether or not local calls are discounted by hour of the day and marked up by the *PERCENTAGE MARKUP* option. The default is no. This option also interacts with *NIGHT DISCOUNT*.

### **05 PRINT LOCAL CALLS**

This option controls whether or not calls having 7 or fewer digits are printed in reports or when *ON THE FLY* call printing is active. The default is yes. Calls that do not print are still retained in the totals.

### **06 RESERVED FOR FUTURE USE**

### **07 PRINT INCOMING CALLS**

This option controls whether or not incoming calls are printed in the reports or when *ON THE FLY* call printing is active. The default is yes. Calls that do not print are still retained in the totals.

### **08 PRINT REPORTS DAILY**

This option controls whether or not the standard reports are run on a daily basis. When the reports run, the call records are automatically deleted. The default value is no.

- If there are no calls for the day, no reports are run.
- When the CAT reaches 90% full, it automatically runs the reports and delete the call records. This option cannot be changed.

### **09 SUPPRESS LOCAL CALLS**

This option controls whether or not local calls are stored. Not storing local calls increases the storage capacity of the CAT. The default is no (do not suppress).

### **10 RESERVED FOR FUTURE USE**

### **11 SUPPRESS INC CALLS**

This option controls whether or not incoming calls are stored. Not storing incoming calls increases the storage capacity of the CAT. The default is no (do not suppress).

### **12 PRINT ON THE FLY**

This option controls whether or not call records are printed “on the fly” as soon as the call record is received from the Communications System. The default is no. This option interacts with *LINE SPACING*, *PRINT LOCAL CALLS*, *MINIMUM DURATION TO PRINT CALLS* and *PRINT INC CALLS*.

### **13 RESERVED FOR FUTURE USE**

### **14 NEW PAGE OPTION**

This option controls whether or not the report for each extension and account code appears on a separate page. The default is no. If the reports will be distributed, the option should be specified as yes.

### **15 ZERO COST LOCAL CALLS**

This option controls whether or not local calls are free. If you charge for local calls, set this option to no. The default is yes.

#### **NOTE:**

If you have ordered message units with your cost database (in the EPROM) this option must be no.

### **16 FREE TIME**

This parameter specifies the time in minutes and tenths that is subtracted from each calls duration to allow for connect and ring. The value of this parameter is controlled by the type of Communications System, the type of telephone company equipment, and the type of business you are in.

The minimum free time is 30 seconds. Table 3-1 shows the relationship between the number you specify and the total free time.

Table 3-1. Free Time Values

---

<b>Free Time</b>	<b>Entry</b>
30	00 (default)
36	01
42	02
48	03
54	04
60	05
66	06
72	07
78	08
84	09
90	10

---

### **17 COST FOR 0+ CALLS**

This parameter specifies a flat-rate charge for operator assisted calls such as credit card and 3rd party billing. Up to \$9.99 can be charged for each call. The default value is zero (no charge).

### **18 COST FOR 555 CALLS**

This parameter specifies a flat-rate charge for long distance directory assistance calls. Up to \$9.99 can be charged for each call. Most telephone companies now charge 50 cents per call which is the default.

### **19 COST FOR 800 CALLS**

This parameter specifies a flat-rate charge for 800 (toll free) calls. Up to \$9.99 can be charged for each call. The default value is zero (no charge).

### **20 COST FOR 900 AND 700 CALLS**

This parameter specifies a per-minute charge for 900 and 700 calls. Up to \$9.99 can be charged for each minute. The default is 50 cents.

### **21 LOCAL CALL SURCHARGE**

This parameter specifies a flat-rate surcharge on local calls. Up to \$9.99 can be charged for each call. The default value is zero (no charge).

### **22 LONG DISTANCE SURCHARGE**

This parameter specifies a flat-rate surcharge on long distance calls. Up to \$9.99 can be charged for each call. The default value is zero (no charge).

### **23 COST FOR 411 CALLS**

This parameter specifies a flat-rate charge for local directory assistance calls. The default is zero (no charge). Up to \$9.99 can be charged for each call.

### 24 RESERVED FOR FUTURE USE

### 25 NIGHT DISCOUNT

This series of seven parameters specifies the time periods and discount amounts for discounting long distance calls based upon hour of the day. Seven-digit local calls are also discounted if the *NIGHT DISCOUNT LOCAL* option is active. The default is no discount. To use this parameter, seven values must be specified:

- Percent 1 = percent discount starting at midnight.
- Time 1 = ending hour for first discount.
- Percent 2 = percent discount after hour Time 1.
- Time 2 = ending hour for second discount.
- Percent 3 = percent discount after hour Time 2.
- Time 3 = ending hour for third discount.
- Percent 4 = percent discount after Time 3 until following midnight.

The normal AT&T discount would be as follows:

53	53% discount night rate.
08	ends at 8.00 am.
00	00% discount day rate.
17	ends at 5.00 pm.
38	38% discount evening rate.
23	ends at 11 pm.
53	53% discount night rate until midnight.

---

## Standard Reports

# 4

---

The CAT reports can be activated in three ways:

- on-request
- automatically on a daily basis (if ordered)
- automatically when the CAT reaches 90% of memory capacity (1125 calls)

The standard reports are

- Summary by Hour — a management report
- Summary by Facility — a management report
- All Extension Detail — a standard report
- Summary by Extension — a variation of the above report

## Standard Reports

---

There is no way of altering this list of reports. Following the reports, the CAT deletes all call records that were used to generate the reports. Calls that were received by the CAT while it was printing reports, are not included on the report, but are saved for the next report.

 **NOTE:**

The 90% capacity automatic report overrides all options. It is intended for your protection so that no data is lost. The CAT beeps its alarm for each call received after 85% (1050) calls to notify you that an automatic report and data deletion will occur soon.

Standard reports can be run at any time by pressing the reset/print button twice.

### Running Standard Reports

To run the standard reports, follow these instructions:

1. Press the *RESET/PRINT* switch on the CAT.

The CAT prints:

Form 4-1. Reset Switch First Press

```
IF PRINT/RESET SWITCH WAS PRESSED INTENTIONALLY  
PRESS IT AGAIN WITHIN TEN SECONDS
```

2. Press the *RESET/PRINT* button a second time.

The CAT prints:

Form 4-2. Reset Switch Second Press

```
IF YOU WANT REPORTS TO BE PRINTED WAIT!  
IF YOU WANT TO RESET SYSTEM PRESS SWITCH AGAIN.
```

3. Do not press the button a third time. The CAT times out in a few seconds and prints the standard reports.

### Special Codes

The state (ST) field normally contains the state or Canadian province abbreviation for the area code called. There are a number of other possibilities which are shown in Table 4-1.

Table 4-1. Special Codes in the State Field

---

<b>Code</b>	<b>Stands For</b>	<b>Means</b>
TF	Toll Free	800 call
SP	Special Purpose	900 or 700 call
IS	Islands	809 calls (Virgin Is/Puerto Rico)
OV	Overseas	011 calls
OP	Operator Assisted	o+ calls
1#	Information	555-1212 or 411 calls
FD	Forward Disconnect	PABX or key system function

---

### Equal Access

The dialed number (DIALED#) field may contain an “=” at the front of the number shown. The “=” indicates that an equal access code was dialed (for example, 10288 for AT&T) to access a long distance carrier.

## Standard Reports

---

### Summary by Hour

---

This report lists the number of calls, the total duration, and total cost for each hour of the day.

#### Form 4-3. Summary by Hour Report

SUMMARY BY HOUR			
HOUR	CALLS	DURATION	COST
00	0001	000001	0000.54
07	0006	000122	0058.99
23	0000	000000	0000.00

## Standard Reports

---

### Summary by Facility

This report lists the number of calls, the total duration and total cost for all calls placed over each active trunk or facility.

#### Form 4-4. Summary by Facility

SUMMARY BY FACILITY			
FACIL	CALLS	DURATION	COST
00	0022	000085	0029.08
01	0003	000020	0025.23

## Standard Reports

---

### All Extension Detail

---

This report lists all extensions that placed calls during the reporting period. The extension reports are printed in numeric order, with the calls in each extension sorted in chronological order. At the end of the report total lines are printed listing the number of calls, the total duration, and the total cost.

#### Form 4-5. All Extensions Report

ALL EXTENSION	LAST CALL	08/10	09:23				
EXTENSION 0021							
DATE	TIME	EXT	DIALED#	ST	DUR	COST	FAC
08/08	10:48	0021	12036334466	CT	017	\$005.75	01
08/08	13:27	0021		IN	FD	\$000.00	02
08/09	13:45	0021	8282301	NY	001	\$000.00	06
TOTAL		CALLS	DURATION		COST		
		000003	00000028		000005.75		
ALL EXTENSION GRAND TOTALS							
TOTAL		CALLS	DURATION		COST		
		000021	00000089		000025.07		

### All Extensions Summary

This report lists all the extensions that were active during the reporting period. Each extension has a summary line listing the number of calls, the duration, and cost.

#### Form 4-6. All Extension Summary Report

SUMMARY BY EXTENSION			
EXT.	CALLS	DURATION	COST
0021	0003	000028	0005.75
0020	0009	000034	0017.82
0027	0006	000024	0001.50
0030	0003	000003	0000.00
TOTAL	CALLS	DURATION	COST
	000021	00000089	000025.07

---

## Appendix A: Rate Update Order Form

# A

---

Rate updates can be ordered by calling by contacting your AT&T sales representative at 1-800-247-7000. Please determine the values for your options and parameters using the information in Chapter 3, Options and Parameters. The form in Table A-1 is provided for your convenience.

Table A-1. CAT Basic for PARTNER II Default Values

---

<u>#</u>	<u>Parameter Name</u>	<u>Default</u>	<u>Range</u>	<u>Selection</u>
01	Percentage Markup	00	00-99	
02	Line Spacing	00	00-99	
03	Minimum Duration to Print Calls	00	00-99	
04	Night Discount Local	N	Y/N	
05	Print Local Calls	Y	Y/N	
06	Reserved for future use	Y	Y/N	

## Appendix A; Rate Update Order Form

---

<u>#</u>	<u>Parameter Name</u>	<u>Default</u>	<u>Range</u>	<u>Selection</u>
07	Print Incoming Calls	Y	Y/N	
08	Print Reports Daily	N	Y/N	
09	Suppress Local Calls	N	Y/N	
10	Reserved for future use	N	Y/N	
11	Suppress Incoming Calls	N	Y/N	
12	Print on the Fly	N	Y/N	
13	Reserved for future use	N	Y/N	
14	New Page Option	Y	Y/N	
15	Zero Cost Local Calls	Y	Y/N	
16	Free Time	0.0	0.0-9.9	
17	Cost for 0+ Calls	0.00	0.00-9.99	
18	Cost for 555 Calls	0.50	0.00-9.99	
19	Cost for 800 Calls	0.00	0.00-9.99	
20	Cost for 900 & 700 Calls (per rein)	0.50	0.00-9.99	
21	Local Surcharge	0.00	0.00-9.99	
22	Long Distance Surcharge	0.00	0.00-9.99	
23	Cost for 411 Calls	0.00	0.00-9.99	
24	Resewed for future use	1-9	1-9	

## Appendix A: Rate Update Order Form

---

<u>#</u>	<u>Parameter Name</u>	<u>Default</u>	<u>Range</u>	<u>Selection</u>
25	Night Discount	00	00-99	
		00	01-24	
		00	00-99	
		00	01-24	
		00	00-99	
		24	01-24	
		00	00-99	

---

---

## **Appendix B: CAT Basic Internal Setup**

# **B**

---

Before installing the CAT Basic, verify that the jumpers are set to the *normal* position as shown in Figure B-1.

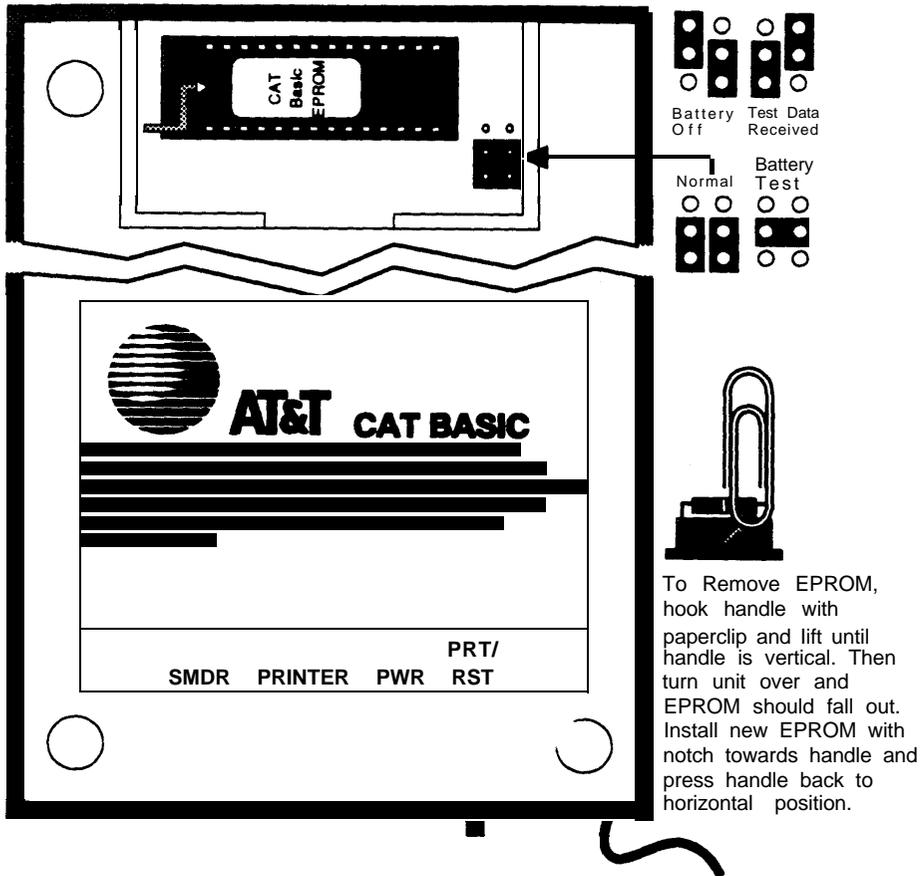


Figure B-1. Location and Settings for Switches and Location of EPROM

---

## Appendix C: CAT Printer DIP Switch Settings

# C

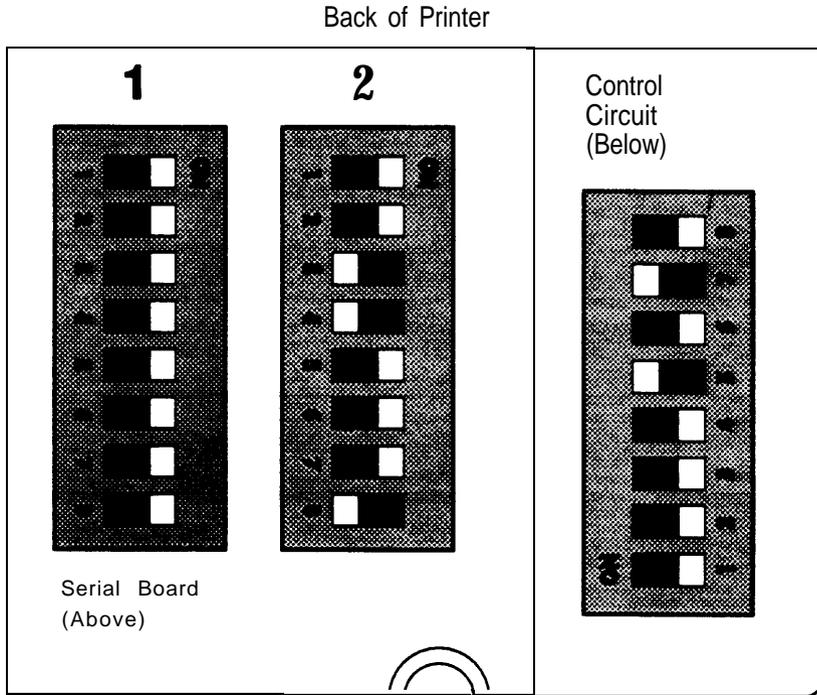
---

### Settings for Switch Bank 1

<u>Number</u>	<u>Switch</u>	<u>Setting</u>
1-1	On: Odd Parity Off: Even Parity	On
1-2	On: Without Parity Off: With Parity	On
1-3	On: 8 data bits Off: 7 data bits	On
1-4	On: Ready/Busy Protocol Off: XON/XOFF Protocol	On
1-5	On: Circuit Test Select Off: Monitor Test Select	On
1-6	On: Print off : Test	On
1-7	On On : DTR Pin-20	on on
1-8	On off: RTS Pin-4 Off On : SSD- Pin-n Off Off: SSD+ Pin 11	

# Appendix C: CAT Printer DIP Switch Settings

---



---

**Figure C-1.** CAT Printer Switch Settings

## Appendix C: CAT Printer DIP Switch Settings

---

### Settings for Switch Bank 2

<u>Number</u>	<u>Switch</u>	<u>Setting</u>
2-1	On On On : 19200 baud	
2-2	Off On On : 9600 baud	
2-3	On Off On : 4800 baud	
	Off Off On : 2400 baud	
	On On off: 1200 baud	On On off
	Off On off: 600 baud	
	On off off: 300 baud	
	off off off: 110 baud	
2-4	On: DSR Input Active Off: DSR Input Inactive	Off
2-5	On: 32 byte buffer Off: 256 byte buffer	On
2-6	On: 200 ms minimum busy Off : 1 second minimum busy	On
2-7	On: Space DTR on Power On Off: Space DRT on Select	On
2-8	Not Used	off

## Appendix C: CAT Printer DIP Switch Settings

### Settings for Control Switch Bank (Lower Level)

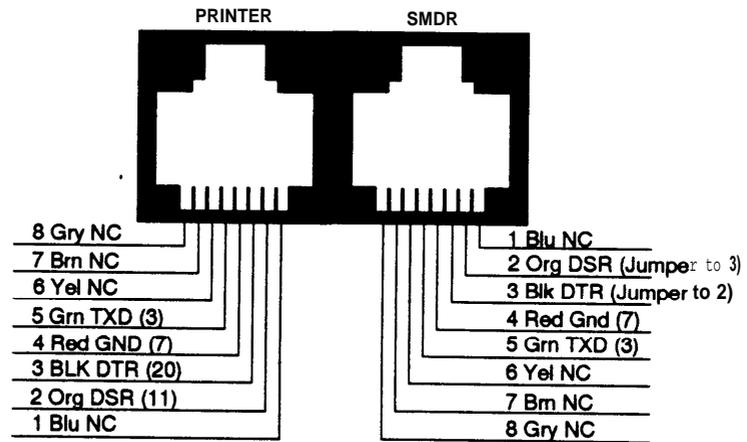
<u>Number</u>	<u>Switch</u>	<u>Setting</u>
C-1	On On On : Spanish	
C-2	Off On On : French Canadian	
C-3	On Off On : Unslashed 0	
	Off Off On : French	
	On On Off : German	
	Off On Off: British	
	On Off Off: Unslashed 0	
	Off Off Off: Slashed 0	off off off
C-4	Off Off: 5.5-inch Form	
C-5	On Off: 8.5-inch Form	
	Off On : 11-inch Form	Off On
	On On : 14-inch Form	
c-6	on: Auto Line Feed	
	Off: No Auto Line Feed	off
c-7	On: 8 data bits	On
	off : 7 data bits	
c-8	on: Disable Front Panel	
	Off: Enable Front Panel	off

---

## Appendix D: Pinouts

# D

---



---

Figure D-1. CAT Basic Pinouts

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