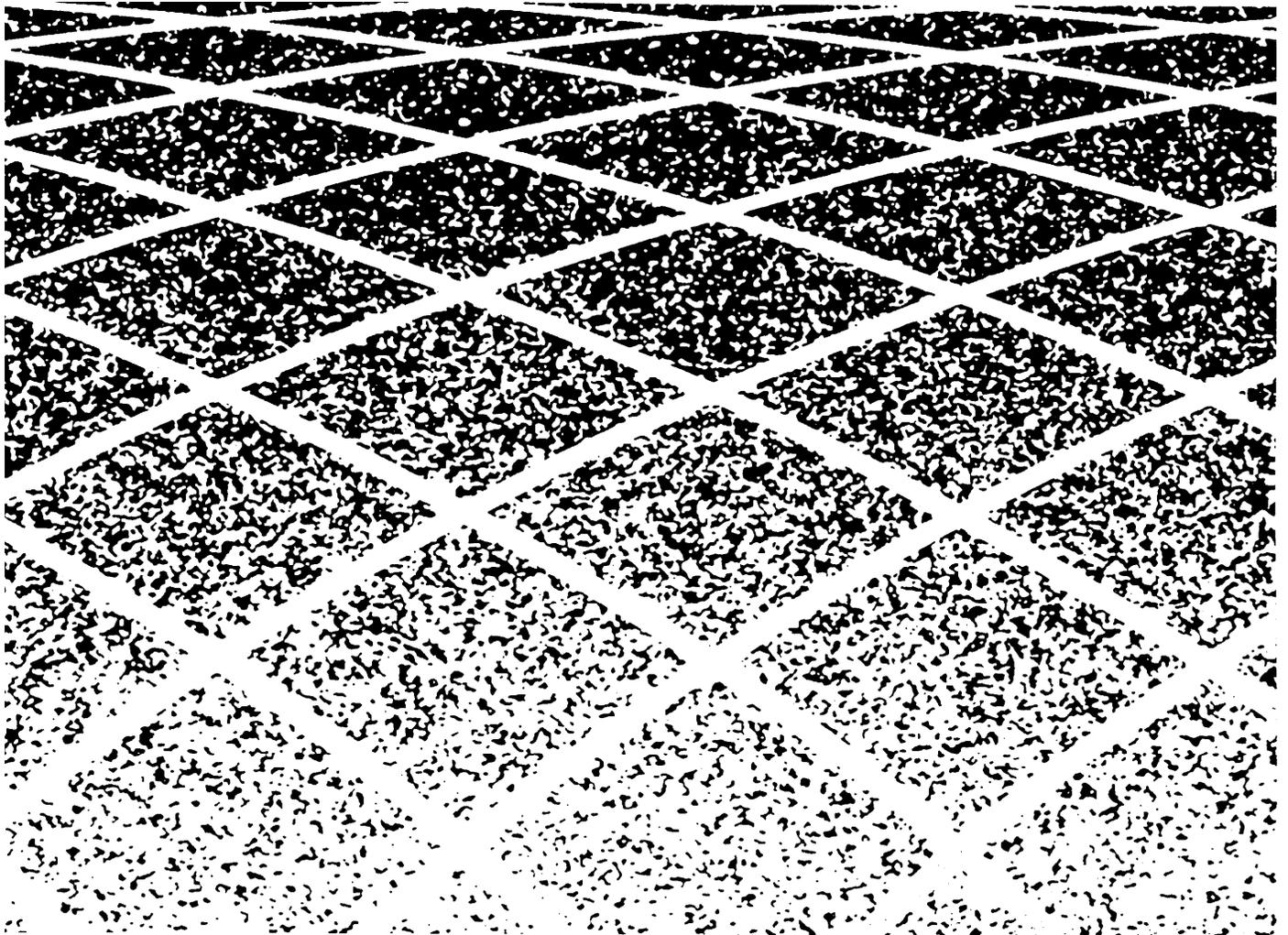




Call Accounting Terminal
(CAT Basic)
Installation and Use



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This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

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As a customer of new telecommunications equipment, you should be aware of the significant and growing problem of theft of long distance services by third parties, known commonly as "toll fraud." It is particularly important that you understand and take appropriate steps to deal with this crime because under applicable tariffs, you will be responsible for payment of associated toll charges. AT&T can not be

responsible for such charges and will not make any allowance or give any credit resulting from toll fraud.

Toll fraud can occur despite the preventive efforts of network providers and equipment manufacturers. Toll fraud is a potential risk for every customer with telecommunications equipment having one or more of the following features: (1) remote access, (2) automated attendant, (3) voice mail, (4) remote administration and maintenance, and (5) call forwarding (remote). This is not a product or design defect, but a risk associated with equipment having one or more of the features described above. If your new telecommunications equipment possesses any of these features, please consult the relevant portion of your documentation for further details and specific procedures to reduce the risk of toll fraud or contact your AT&T dealer for further details.

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Support Telephone Numbers

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Contents

| | | |
|----------|--|------|
| 1 | Introduction | 1-1 |
| | ■ Applications | 1-2 |
| | ■ General Description | 1-4 |
| | Lamps | 1-5 |
| | Alarms | 1-5 |
| | Capacities | 1-5 |
| | Rear Panel | 1-6 |
| | ■ Report Printing | 1-7 |
| | ■ Report Information | 1-7 |
| | ■ Customizing Options | 1-8 |
| | | |
| 2 | Pre-Installation Preparations | 2-1 |
| | ■ Selecting a Site | 2-2 |
| | ■ Unpacking and Inventorying Equipment | 2-3 |
| | ■ Verifying Jumper Settings and EPROM | 2-3 |
| | ■ Preparing the CAT Printer | 2-5 |
| | ■ Testing the Printer | 2-21 |
| | ■ Operating the Printer | 2-22 |

Contents

| | | |
|----------|--|------|
| 3 | Installing the CAT Basic | 3-1 |
| | 1. Installation With MERLIN PLUS | 3-2 |
| | 2. Installation on the Same AC Outlet | 3-4 |
| | 3. Installation on a Different AC Outlet | 3-6 |
| | ■ System Features | 3-11 |
| | Lamps | 3-11 |
| | Alarms | 3-11 |
| | Rear Panel | 3-12 |
| | ■ System Initialization | 3-13 |
| | Testing the System | 3-16 |
| | Running Diagnostics | 3-17 |

| | | |
|----------|-------------------------------|-----|
| 4 | Options and Parameters | 4-1 |
|----------|-------------------------------|-----|

| | | |
|----------|----------------------------|-----|
| 5 | Standard Reports | 5-1 |
| | ■ Special Codes | 5-3 |
| | ■ Running Standard Reports | 5-6 |



Contents

| | |
|----------------------------|------|
| Summary by Hour | 5-7 |
| Summary by Facility | 5-8 |
| All Extension Detail | 5-9 |
| All Extensions Summary | 5-10 |
| All Account Detail | 5-11 |
| All Account Summary | 5-12 |
| Forward Disconnect Reports | 5-13 |
| Incoming Call Reports | 5-15 |



| | | |
|----------|--|-----|
| A | Appendix A:Rate Update Order Form | A-1 |
|----------|--|-----|



| | | |
|----------|---|-----|
| B | Appendix B: CAT Basic Internal Setup | B-1 |
|----------|---|-----|



| | | |
|----------|--|-----|
| C | Appendix C: CAT Printer DIP Switch Settings | C-1 |
|----------|--|-----|



| | | |
|----------|----------------------------|-----|
| D | Appendix D: Pinouts | D-1 |
|----------|----------------------------|-----|

Figures

1 Introduction

| | | |
|------|---------------------|-----|
| 1-1. | AT&T CAT Basic | 1-4 |
| 1-2. | CAT Plus Rear Panel | 1-6 |

2 Pre-Installation Preparations

| | | |
|-------|---|------|
| 2-1. | Location and Settings for Switches and Location of EPROM | 2-4 |
| 2-2. | Removing Access Cover and Smudge Strips | 2-6 |
| 2-3. | Location of Shipping Retainer | 2-7 |
| 2-4. | Inserting Platen Knob | 2-8 |
| 2-5. | Removing the Switch Cover | 2-9 |
| 2-6. | CAT Printer Switch Settings | 2-10 |
| 2-7. | Installing the Paper Separator | 2-11 |
| 2-8. | Inserting the Ribbon Cartridge | 2-13 |
| 2-9. | Ribbon Cartridge, Top View | 2-14 |
| 2-10. | Loading Paper for Bottom Feed | 2-17 |
| 2-11. | Loading Paper for Rear Feed | 2-19 |
| 2-12. | Connecting the Printer Cable | 2-20 |
| 2-13. | Printer Control Panel | 2-22 |

Figures

3 Installing the CAT Plus

- | | | |
|------|--|------|
| 3-1. | Installation with MERLIN PLUS | 3-3 |
| 3-2. | Installation on the Same AC Outlet | 3-5 |
| 3-3. | Preparing the Wall Jack for Installation | 3-8 |
| 3-4. | Installing the CAT from the Wall Jack | 3-9 |
| 3-5 | CAT Basic Rear Panel | 3-12 |

B Appendix B: CAT Basic Internal Setup

- | | | |
|------|---|-----|
| B-1. | Location and Settings for Switches and Location of EPROM | B-2 |
|------|---|-----|

C Appendix C CAT Printer DIP Switch Settings

- | | | |
|-------|-----------------------------|-----|
| C-1 . | CAT Printer Switch Settings | C-2 |
|-------|-----------------------------|-----|

D Appendix D: Pinouts

- | | | |
|-------|------------------|-----|
| D-1 . | CAT Plus Pinouts | D-1 |
|-------|------------------|-----|

Tables

2 Pre-Installation Preparations

| | | |
|------|--------------------------------|------|
| 2-1. | CAT Plus Location Requirements | 2-2 |
| 2-2. | Print Head Gap Lever Setting | 2-15 |

4 Options and Parameters

| | | |
|------|------------------|-----|
| 4-1. | Free Time Values | 4-5 |
|------|------------------|-----|

5 Standard Reports

| | | |
|------|----------------------------------|-----|
| 5-1. | Special Codes in the State Field | 5-4 |
|------|----------------------------------|-----|

A Appendix A: Rate Update Order Form

| | | |
|------|--------------------------|-----|
| A-1. | CAT Basic Default Values | A-1 |
|------|--------------------------|-----|

Forms

3 Installing the CAT Plus

| | | |
|------|---------------------------|------|
| 3-1. | Reset Switch First Press | 3-13 |
| 3-2. | Reset Switch Second Press | 3-14 |
| 3-3. | Reset Switch Third Press | 3-14 |
| 3-4. | CAT Diagnostics | 3-15 |
| 3-5. | CAT Diagnostics | 3-18 |

5 Standard Reports

| | | |
|-------|--|------|
| 5-1. | Incoming Call Indicators | 5-4 |
| 5-2. | Reset Switch First Press | 5-6 |
| 5-3. | Reset Switch Second Press | 5-6 |
| 5-4. | Summary by Hour Report | 5-7 |
| 5-5. | Summary by Facility | 5-8 |
| 5-6. | All Extensions Report | 5-9 |
| 5-7. | All Extension Summary Report | 5-10 |
| 5-8. | All Account Report | 5-11 |
| 5-9. | All Account Summary Report | 5-12 |
| 5-10. | Forward Disconnect Reports | 5-13 |
| 5-11. | Incoming Call Detail and Summary Reports | 5-15 |

Introduction

1

The AT&T CAT Basic 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.

The AT&T CAT Basic can be used with the following Communications Systems:

- MERLIN LEGEND™ Communications System
- MERLIN® II Communications System
- MERLIN® PLUS Communications System
- MERLIN® 1030/3070 Communications System
- SPIRIT® 1224/2448 Communications System
- PARTNER® II, Communications System
- PARTNER® Plus, Release 3, Communications System

Applications

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

Control Misuse and Abuse: Usage reports for each extension shows if long distance facilities are being used economically. Personal calls are reduced because employees know that calling patterns are monitored.

Client Billback: Telephone costs identified by extension and account code allow easy billback to clients for calls made on their behalf.

Market Analysis: Use of account codes keyed to advertisements, and/or customer zip codes can pinpoint the media and geographic areas where your marketing is most effective.

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 code 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.

Introduction

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.

Capture Leads: Incoming call reports enable you to track valuable information on incoming as well as outgoing calls — time of the call, duration, extension, and trunk. In addition, if caller identification (ICLID) information is available, CAT Basic automatically includes the numbers of those calling your office in all its detail reports.

Introduction

General Description

The AT&T CAT Basic is a small, self-contained unit that operates with an existing Communications System to provide cost accounting. It connects 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 on telephone calls in reports that can be used for many administrative and billing purposes.

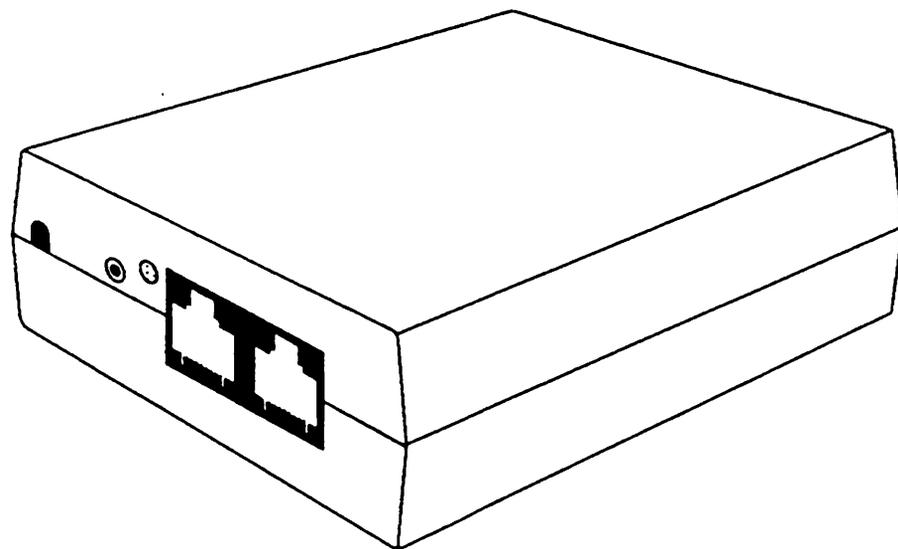


Figure 1-1. AT&T CAT Basic

Introduction

Lamps

A single, green Light Emitting Diode (LED) on the rear of the unit normally indicates that power is connected.

Alarms

Two alarms, signalled by distinct beeping sounds, indicate that the printer has stalled or that the storage capacity of the CAT Basic is 85% used.

Capacities

The CAT Basic has the following capacities:

- **Call Detail:** 1250 call detail records
- **Extensions:** 100 four-digit extensions numbers
- **Account Codes:** 200 nine-digit account codes
- **Lines or Trunks:** 49 lines or trunks
- **Maximum Dialed Digits:** 10 plus '1" or "0," or "=" for equal access
- **Maximum Call Duration:** 999 minutes
- **Battery Backup:** 24-hour battery-backed data storage
- **Reports:** 8 summary and detail reports
- **Standard Costing:** AT&T tariff
- **Custom Rate Options:** Local rate table and AT&T International

Rear Panel

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

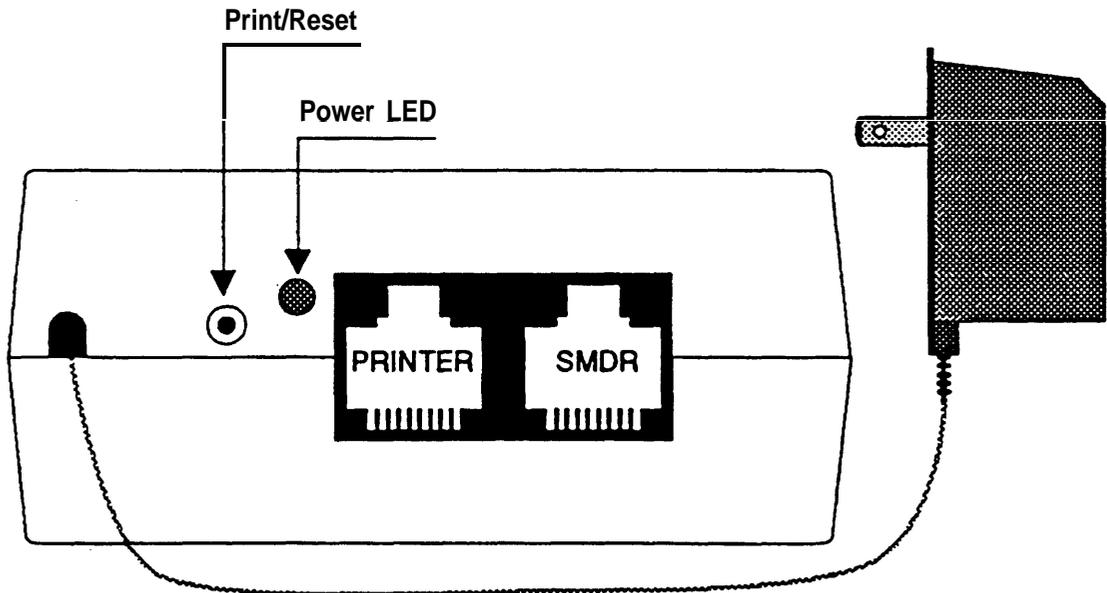


Figure 1-2. CAT Basic Rear Panel

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

Report Printing

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 8 reports available:

- **Summary by Hour**— lists the number of calls, total duration, and total cost for each hour of the day.
- **Summary by Facility**— provides totals on the number of calls and their total duration and 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 on each extension and their total duration and cost.
- **All Account Detail**— lists the detail of each call in a separate report for each account.
- **Summary by Account**— lists the number of calls for each account and their total duration and cost.

Introduction

- **Incoming Call**— lists the incoming calls chronologically.
- **Foward Disconnect**— lists chronologically all calls on which the “far end” party hangs up at least 5 seconds before your office does.

Customizing Options

- **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 or account code 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.
- **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.

Introduction

- **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

Introduction

Pre-Installation Preparations

2

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

However, before you start the installation, it is important to complete each of the following preparations:

- Following the requirements in Table 2-1, select the place where you will install the CAT Basic.
- Make sure that your Communications System SMDR output has been activated.
- Make sure that you have a *non-switched* 110 volt AC outlet with sufficient power available for both the CAT Basic and the CAT Printer.

Pre-Installation Preparations

Selecting a Site

If possible, the CAT Basic should be located very near the Communications System. The limits are as follows:

Table 2-1. CAT Basic Location Requirements

| Installation Procedure | Communications System | Maximum Distance and Other Requirements |
|-------------------------------|--|--|
| 1 | MERLIN PLUS | Up to 14 feet from Data Collector, which may be up to 1000 feet from the Communications System. |
| 2 | MERLIN 1030/3070 MERLIN II MERLIN LEGEND SPIRIT 1224/2448 | Up to 50 feet from the SMDR port of the Communication System, directly connected to it, and plugged in to the same AC power outlet as the system. |
| 3 | PARTNER II PARTNER Plus | Between 51 and 1000 feet from the Communications System (using building wiring), or if plugged into a different AC power outlet. (This setup requires Z3A series Asynchronous Data Units.) |

Pre-Installation Preparations

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 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

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.

Pre-Installed Preparations

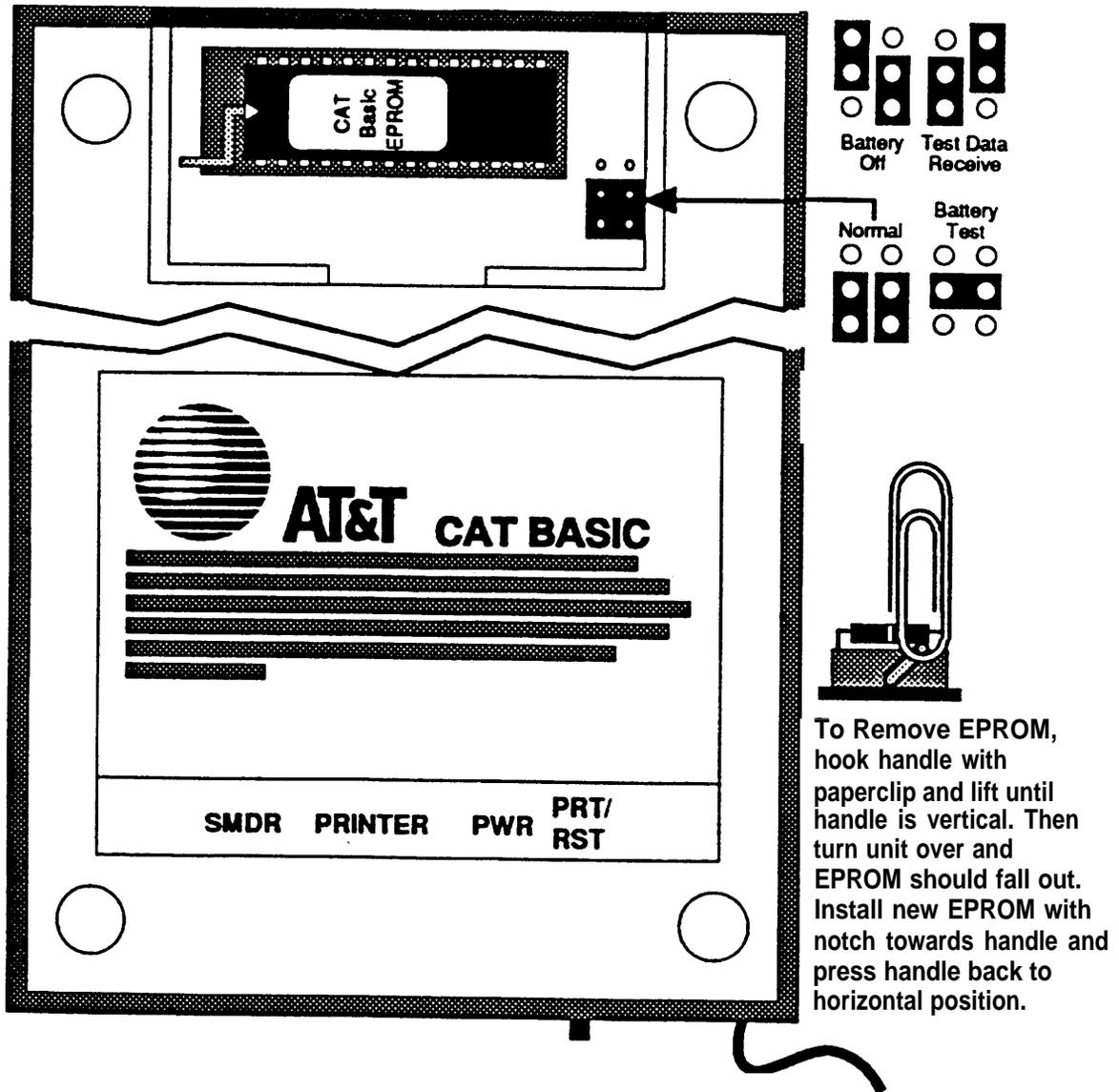


Figure 2-1. Location and Settings for Switches and Location of EPROM

Pre-Installation Preparations

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)

Pre-Installation Preparations

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

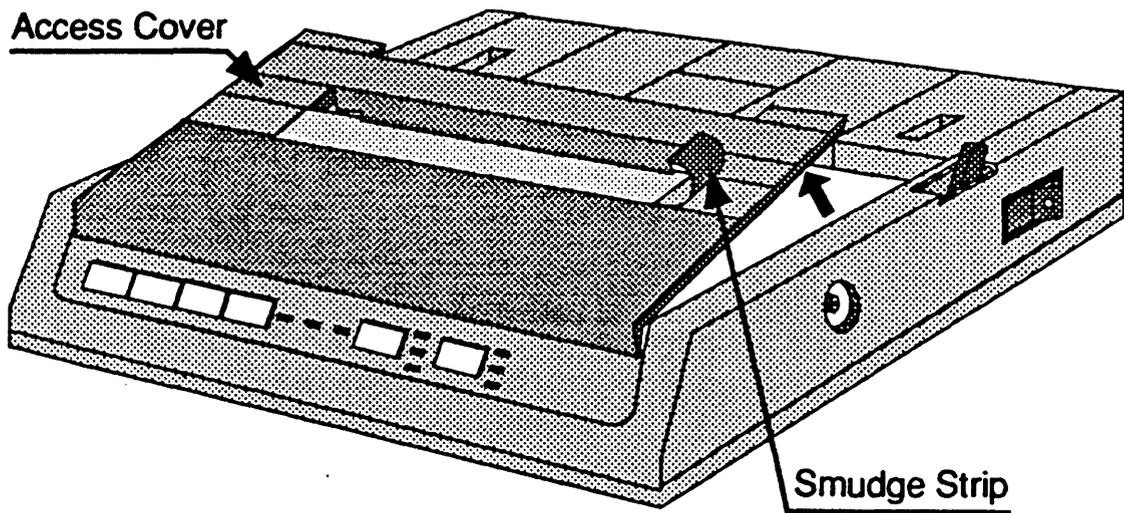


Figure 2-2. Removing Access Cover and Smudge Strips

Pre-Installation Preparations

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

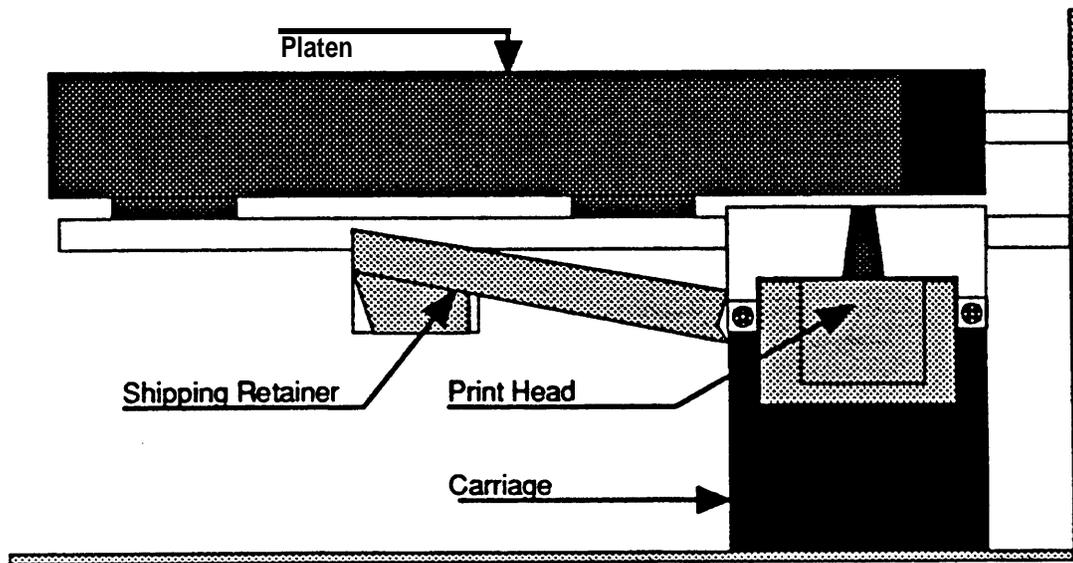


Figure 2-3. Location of Shipping Retainer

Pre-Installation Preparations

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.

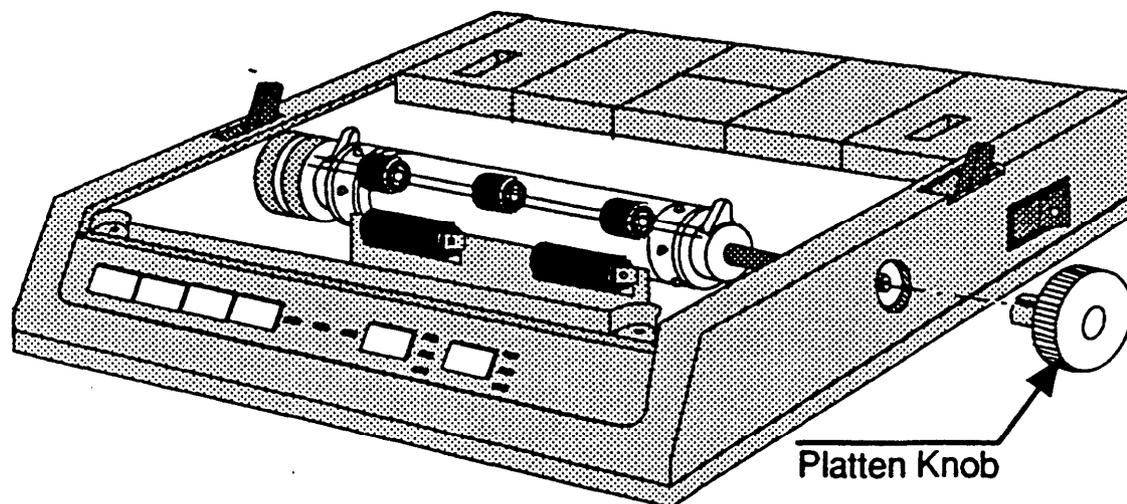


Figure 2-4. Inserting Platen Knob

Pre-Installation Preparations

Verifying the Internal Switches

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

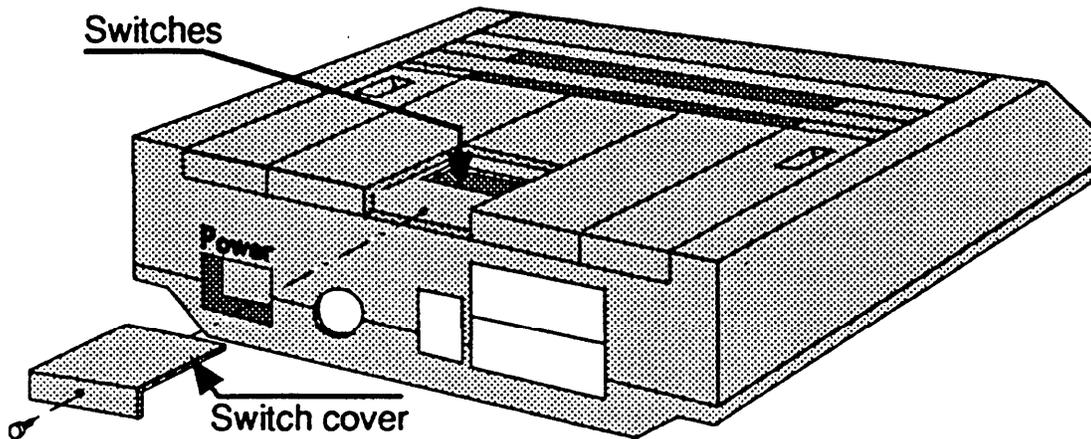


Figure 2-5. Removing the Switch Cover

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.

Pre-Installation Preparations

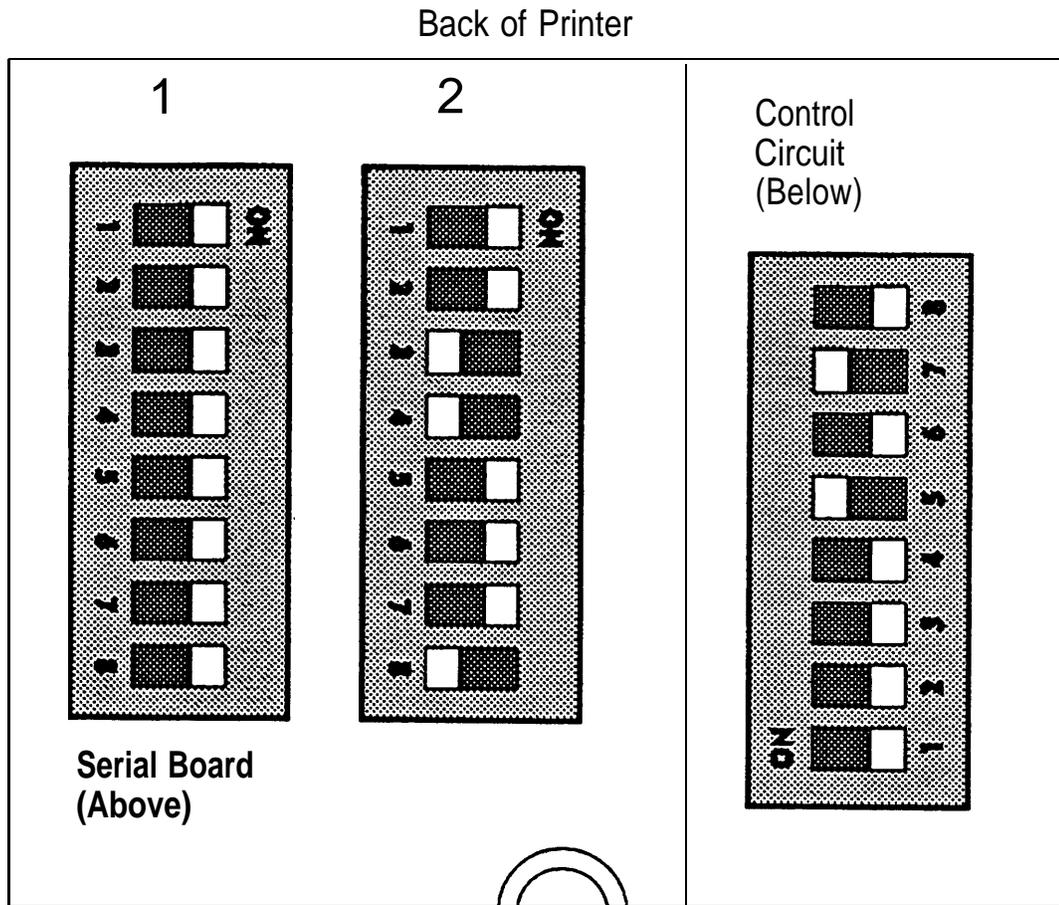


Figure 2-6. CAT Printer Switch Settings

Pre-Installation Preparations

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.

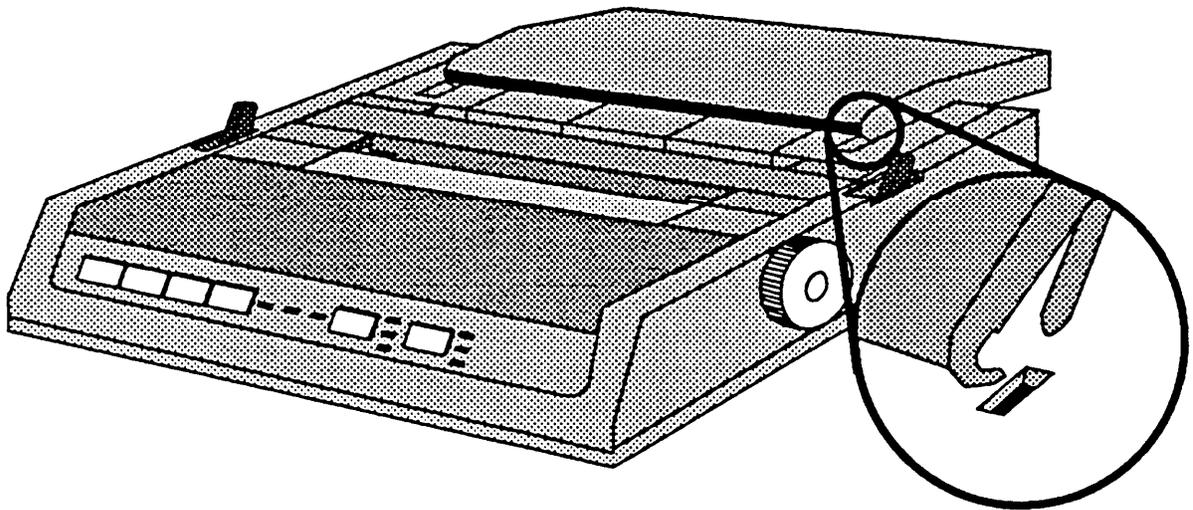


Figure 2-7. Installing the Paper Separator

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

Installing the 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.

Pre-Installation Preparations

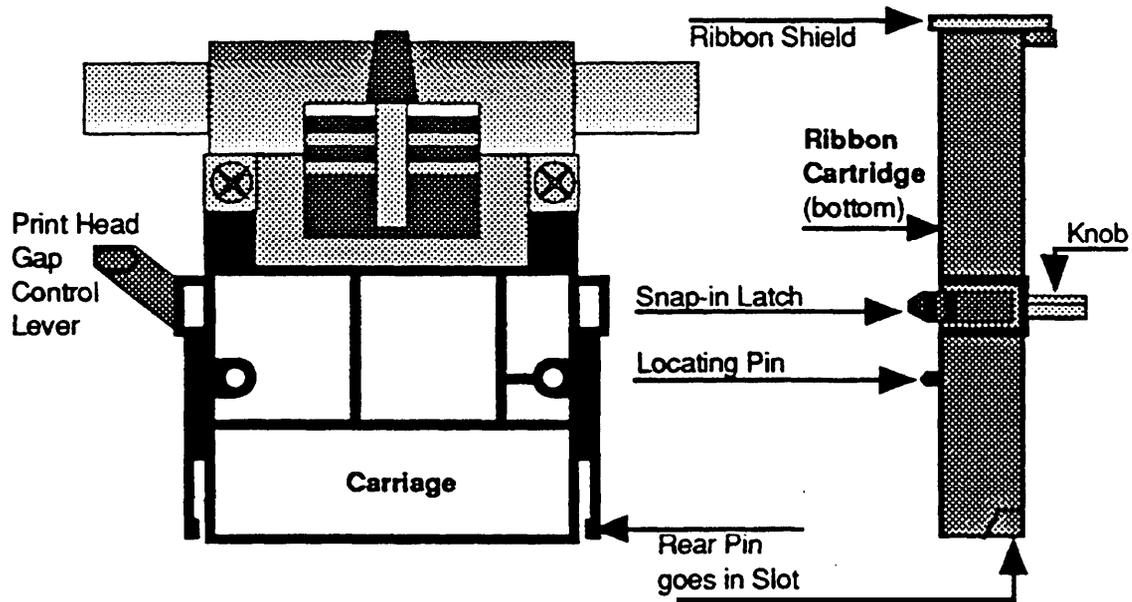


Figure 2-8. Inserting the Ribbon Cartridge

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.

Pre-Installation Preparations

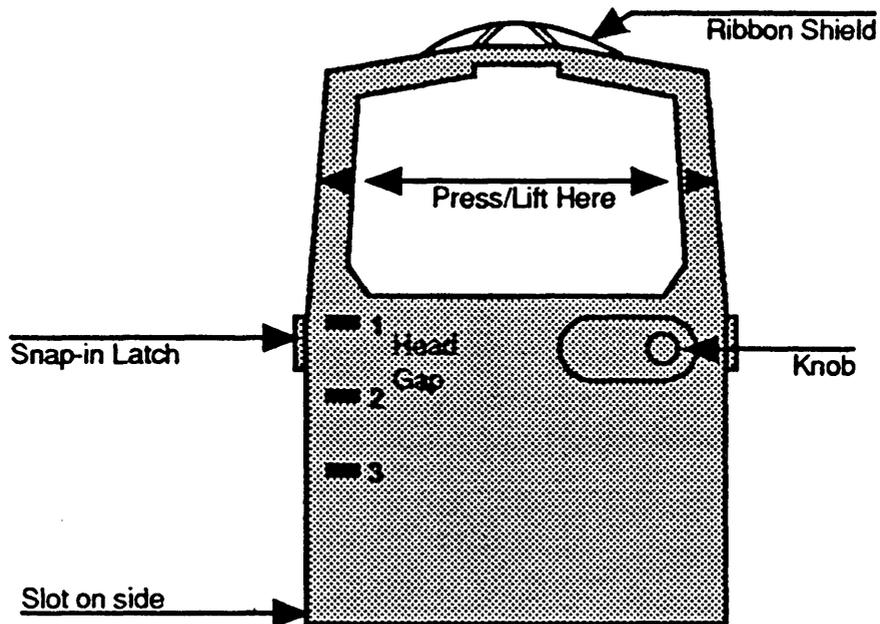


Figure 2-9. Ribbon Cartridge, Top View

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.

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 2-2.

Table 2-2. Print Head Gap Lever Setting

| Paper Type | Print Head Gap Lever Setting |
|-------------------|-------------------------------------|
| 1-part or 2-part | 1 |
| 3-part or 4-part | 2 |
| extra thick | 3 |

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.

Pre-Installation Preparations

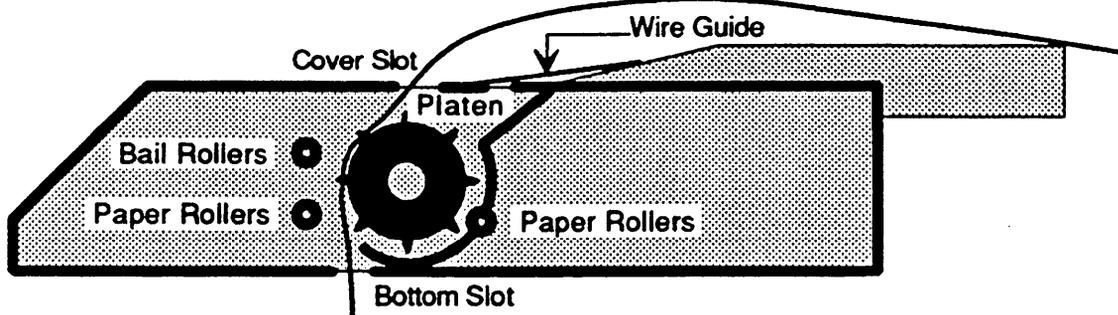


Figure 2-10. Loading Paper for Bottom Feed

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.

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.

Pre-Installation Preparations

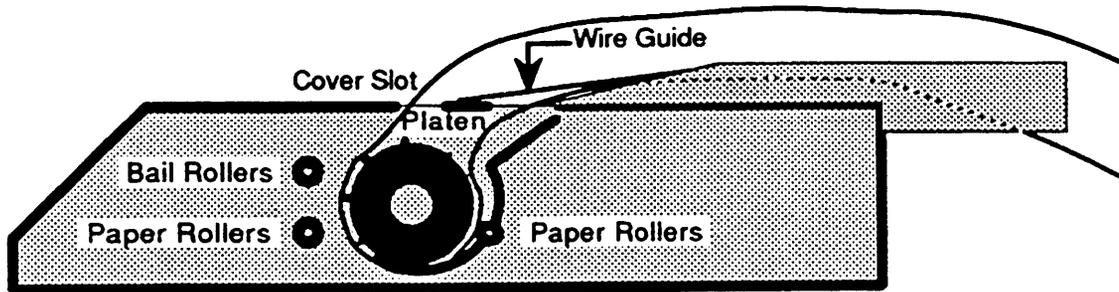


Figure 2-11. Loading Paper for Rear Feed

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.

Pre-Installation Preparations

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.
-

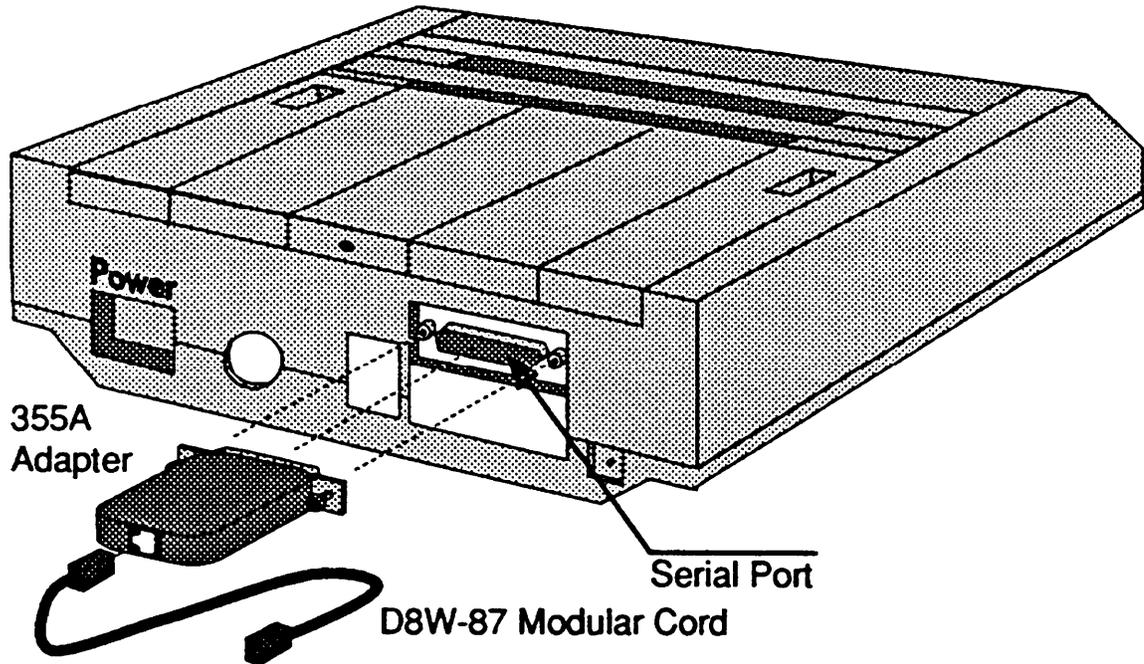


Figure 2-12. Connecting the Printer Cable

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.
4. At the appropriate time, connect the other end of the D8W-87 modular

Pre-Installation Preparations

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

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.

Pre-Installation Preparation

Operating the Printer

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

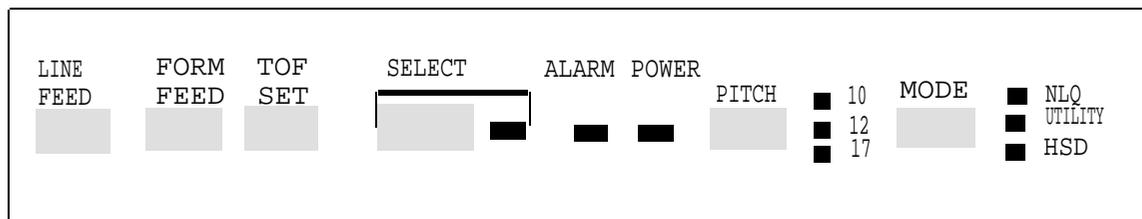


Figure 2-13. Printer Control Panel

- 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.

Pre-Installation Preparations

- 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).

Pre-Installation Preparations

Installing the CAT Basic

3

Before installing the CAT, be sure that you have

- Selected the site according to the requirements in Table 2-1.
- Set up the CAT printer according to the instructions given in Chapter 2.
- Administered the Call Reporting options for your Communications System, following the instructions in the system's manual.

Next, refer again to Table 2-1 to determine which installation procedure is appropriate for your Communications System and for the location of your CAT Basic. The three procedures that follow are numbered according to the left column of Table 2-1.

Note that the numbered callouts in Figures 3-1 to 3-4 refer to steps in the corresponding installation procedure.

1. Installation with MERLIN PLUS

Refer to Figure 3-1. To install the CAT, follow these instructions:

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

Installing the CAT Basic

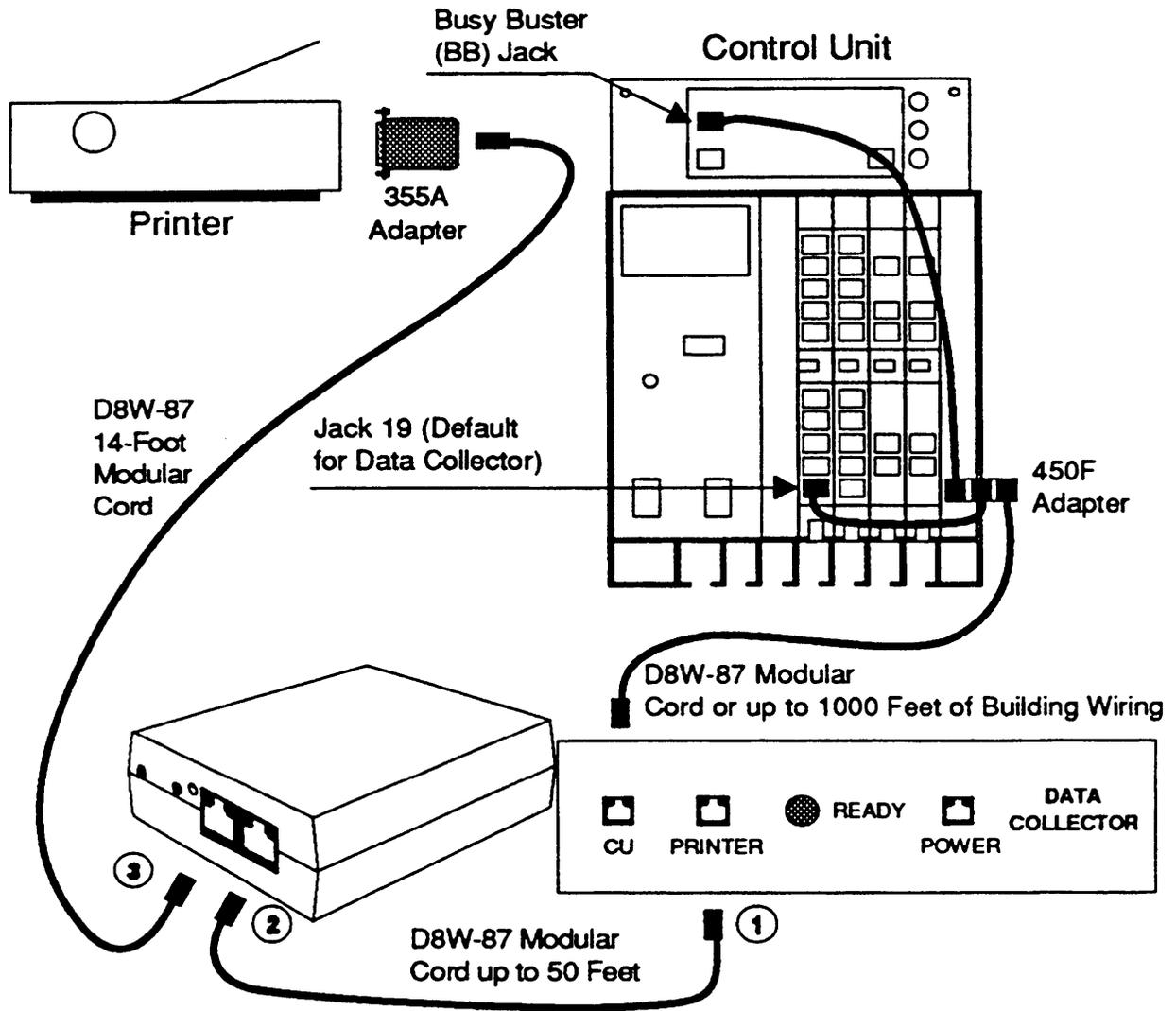


Figure 3-1. Installation With MERLIN PLUS

2. Installation on the Same AC Outlet

Refer to Figure 3-2. To install the CAT, follow these instructions:

1. For MERLIN 1030/3070, MERLIN II, and MERLIN LEGEND, use a Z200A EMI filtered cord. For SPIRIT 1224/2448, PARTNER II, and PARTNER Plus, use a D8W-87 modular cord. Plug one end of the modular cord into the SMDR jack on the Processor Module, in the Jack Field, or in the Station Interconnect Panel.
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 CAT Basic

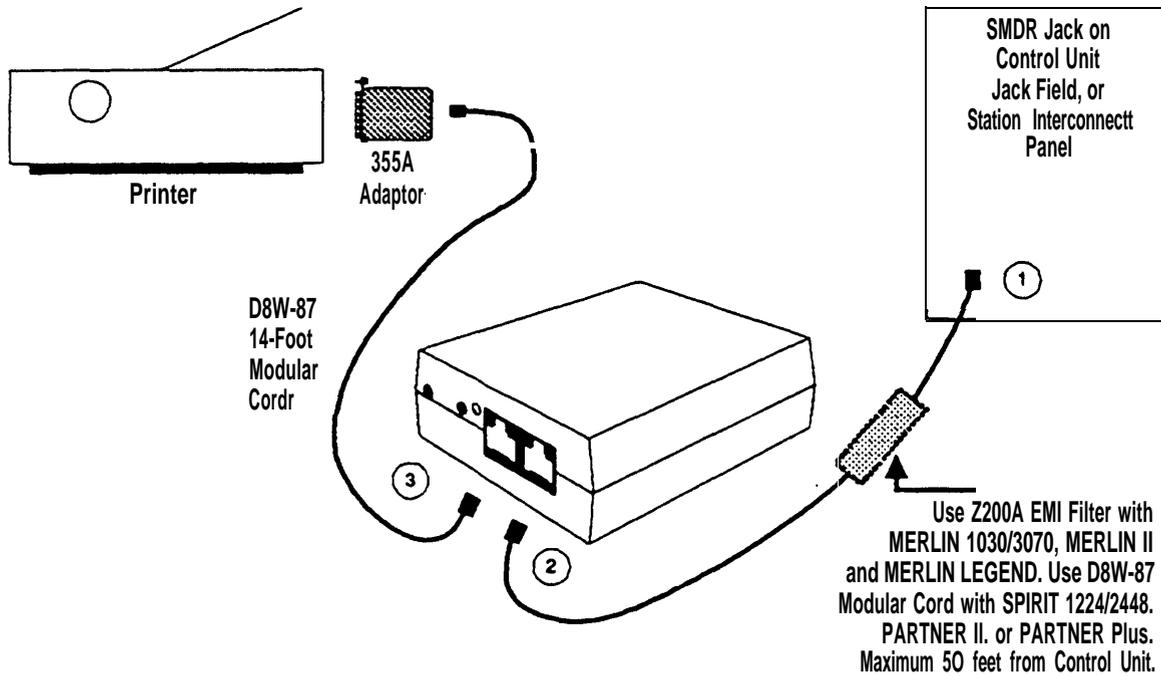


Figure 3-2. Installation on the Same AC Outlet

3. 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 2480 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 Asynchronous Data Unit (ADU)
- one Z3A4 ADU
- two 2012D power transformers
- for MERLIN 1030/3070, MERLIN II, and MERLIN LEGEND only, one Z200A EMI filtered modular cord

To prepare the wall jack to receive the CAT, follow instruction steps 1 through 13 illustrated in Figure 3-3. To connect the CAT to the wall jack, follow instructions steps 15 through 25 illustrated in Figure 3-4.

Installing the CAT Basic

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, or position in the Station Interconnect Panel (SIP) that represents these wires.
2. For MERLIN 1030/3070, MERLIN II, and MERLIN LEGEND, use a Z200A EMI filtered cord. For SPIRIT 1224/2448, PARTNER II, and PARTNER Plus, use a D8W-87 modular cord. Plug one end of the modular cord into the SMDR jack on the Processor Module, in the Jack Field, or in the Station Interconnect Panel.
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 400B2 adapters.
9. Plug the 400B2 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 248B 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 CAT Basic

12. Plug the other end of the D6AP-87 modular cord into the lower modular jack of the 40082 adapter in the SIP.
13. Plug the 2012D power transformer into a standard ac power outlet.
14. Take your remaining cables and adapters to the CAT location.

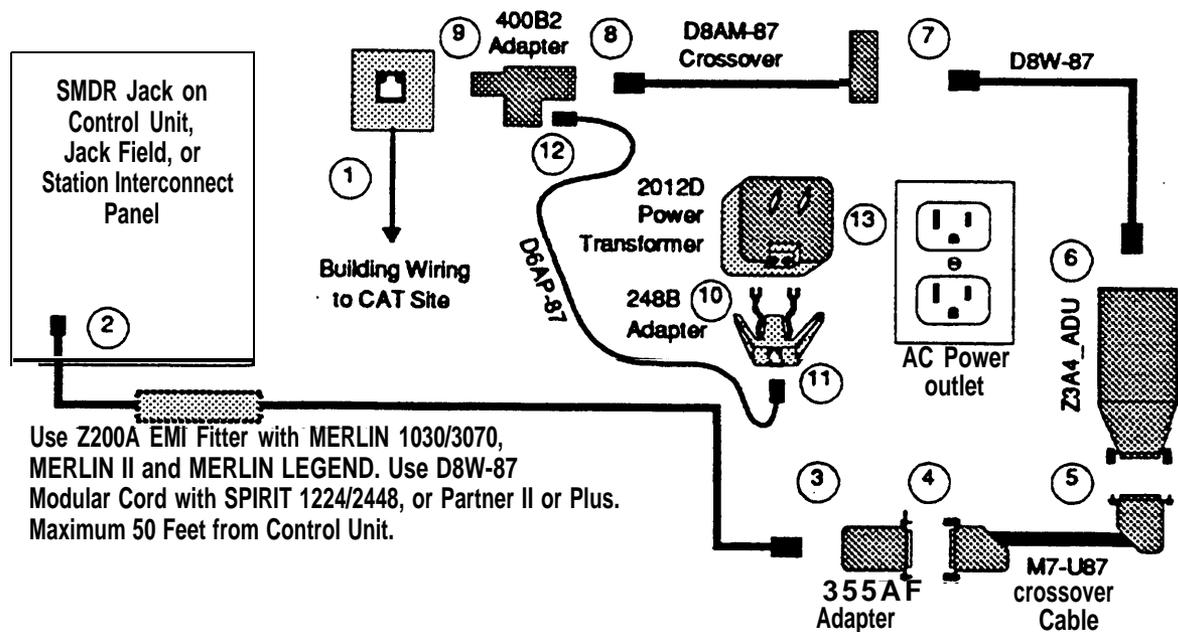


Figure 3-3. Preparing the Wall Jack for Installation

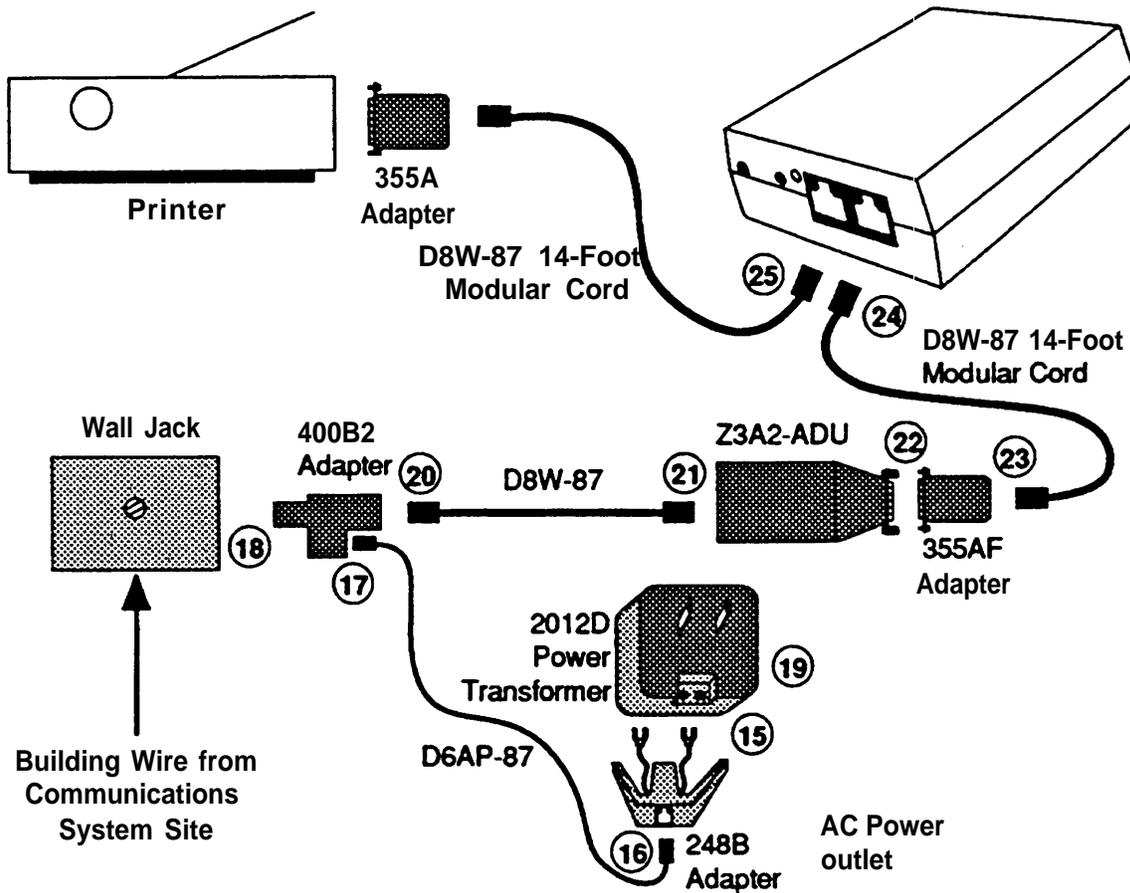


Figure 3-4. Installing the CAT From the Wall Jack

15. Attach the second 248B adapter's spade lugs to the two screw terminals on the second 2012D 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 400B2 adapter.

Installing the CAT Basic

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 Features

Now is the time — before you begin to initialize the CAT Basic — to familiarize yourself with the system's features, especially the lamps and alarms.

Lamps

A single, green Light Emitting Diode (LED) is located on the rear of the unit. The green LED normally 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

Two alarms indicate that the CAT Basic requires attention. Both 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 other printer problem.
- **85% Full:** A single beep for each call indicates that the storage capacity of the CAT Basic is 85% used — that is, 1050 calls have been stored in the system. This is an indication that the reports should be run.

Rear Panel

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

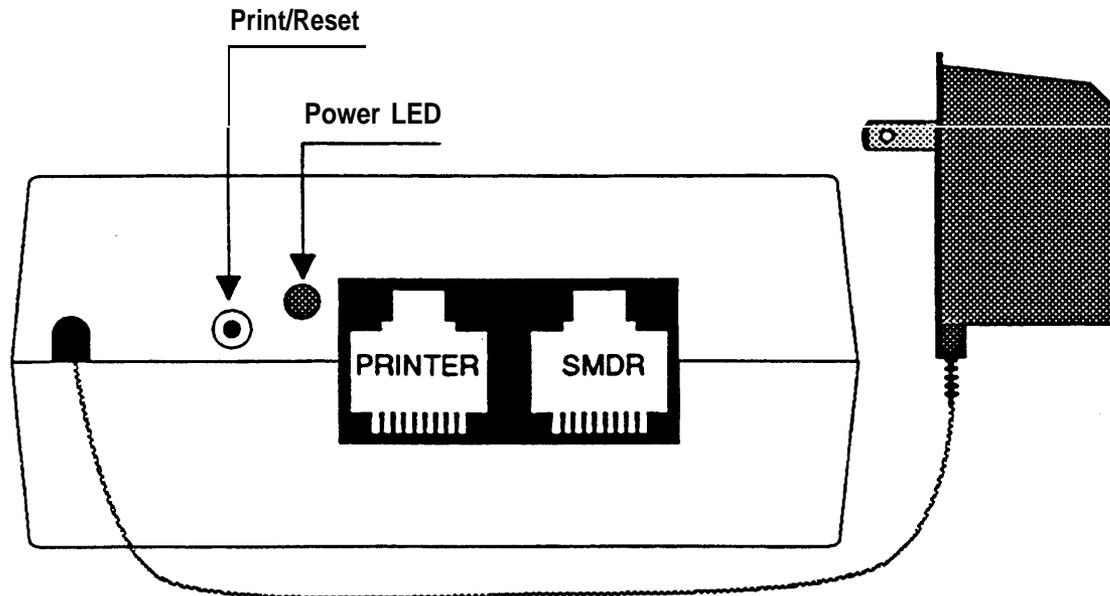


Figure 3-5. CAT Basic Rear Panel

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

System Initialization

After installing the CAT, initialize it using the steps that follow. This procedure erases all call records. The only times you use it are when you first install the CAT and when you update the EPROM.

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 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 *normal* position as shown in Figure 2-1.

If the green LED is still not on, unplug the CAT power module and call for technical assistance.

5. Press the *PRINT/RESET* switch on the back of the CAT.

The system should print the following message, followed by 4 asterisks:

Form 3-1. 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 CAT Basic

- 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 *PRINT/RESET* button a second time.

The system should print the following message, followed by four asterisks telling you that the CAT is preparing to print reports:

Form 3-2. Reset Switch Second Press

```
IF YOU WANT REPORTS TO BE PRINTED, WAIT!  
IF YOU WANT TO RESET, PRESS SWITCH AGAIN WITHIN TEN SECONDS.
```

7. Press the *PRINT/RESET* button a third time.

The system should print the following message:

Form 3-3. Reset Switch Third Press

```
SYSTEM RESET REQUESTED
```

The printer prints a line of Is followed by a line of asterisks (*). This is followed by the Diagnostics as shown in Form 3-4.

Installing the CAT Basic

If the row of Is 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 Is.

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 5, *Standard Reports*.

If the reports do not print, refer to Figure 2-1 and set the jumpers so that the LED flashes for received data. Place a 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. Check also that your Communications System is administered properly.

If the LED 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, assuming there has been no traffic on the Communications System during the printing.

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 3-5. The CAT then returns to the regular display and main menu prompt.

- 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:**

To keep up with rate changes, you should order a rate update about once a year, as telephone rates change, or as new area codes are introduced.

Options and Parameters

4

There are 25 options and parameters that you specify upon ordering your CAT. Later, when you update the EPROM, you can change these factory-installed settings by using the Rate Update Order Form in Appendix A. This chapter describes each option and parameter in detail to help you choose the settings and values best suited to your company's needs.

01 PERCENTAGE MARKUP

This parameter specifies the percentage mark-up for all 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 local calls are discounted by hour of the day and marked up by the *PERCENTAGE MARKUP* option. The default is no. You have to select this option if you want the *NIGHT DISCOUNT* to apply to local calls.

05 PRINT LOCAL CALLS

This option controls whether 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 PRINT CALLS WITHOUT ACCOUNT NO.

This option controls whether or not calls without account codes 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.

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

10 SUPPRESS CALLS W/O ACCT

This option controls whether calls without account codes are stored. Use this option when you are only interested in those calls that can be billed back to an account code. The default is no (do not suppress).

11 SUPPRESS INC CALLS

This option controls whether 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 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*, *PRINT CALLS W/O ACCT MINIMUM DURATION TO PRINT CALLS* and *PRINT INC CALLS*.

13 PUT CALL IN ACCT REP ONLY

This option controls whether calls with account codes appear in only the account code report (yes), or in both the account code and extension reports (no). The default is no (print both places).

14 NEW PAGE OPTION

This option controls whether the report for each extension and account code appear on a separate page. The default is no. If the reports will be distributed, this option should be specified as yes.

15 ZERO COST LOCAL CALLS

This option controls whether local calls are free. If you charge for local calls, set this option to no. The default (yes) applies no charge on local calls (7 or fewer digits). If you have ordered local call costing (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 call's 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 4-1 shows the relationship between the number you specify and the total free time.

Options and Parameters

Table 4-1. Free Time Values

| Free Time | Entry |
|------------------|--------------|
| 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 third-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 ACCOUNT CODE LENGTH

This parameter specifies the minimum and maximum length for a valid account code. The first digit is the minimum number of digits and the second digit is the maximum number of digits for the account code. The default is 1-9 (any code from 1 to 9 digits in length).

⇒ **NOTE:**

A call with any number of digits in the account code appears on the extension report, but only calls whose account code matches this parameter appear in the account report.

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.

Options and Parameters

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

5

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)

CAT Basic produces eight kinds of report:

- Summary by Hour — a standard report
- Summary by Facility — a standard report
- All Extension Detail — a standard report
- Summary by Extension — a variation of the preceding report
- All Account Detail — a standard report
- Summary by Account — a variation of the preceding report
- Forward Disconnect— a standard report
- Incoming Call Detail— a standard 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.

 **CAUTION:**

Never press the PRINT/RESET button a third time unless you want to erase all existing call data. Whenever you want to print reports, press PRINT/RESET twice and then wait.

Special Codes

A number of codes are shared by all the CAT Basic detail reports. The pages immediately following identify them briefly. Later sections describe their uses more fully in connection with specific reports.

Equal Access Indicator

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.

Forward Disconnect Indicator

An asterisk " ." after the last digit in the dialed number (DIALED#) field indicates that the “far end” party hung up at least 5 seconds before your office did. In addition to listing on their own report, forward disconnect calls now appear with an asterisk after the last digit of the DIALED# field of all CAT Basic reports.

Incoming Call Identifiers

CAT Basic supports any available caller identification signal — whether an Automatic Number Identification (ANI) signal on a long distance call or Incoming Call Identification (ICLID) or other CLASS signal provided by a local telephone company. Thus, on all reports, CAT Basic prints the following information for each incoming call with caller identification data:

- The caller's number prints in the DIALED# field.
- The letter I replaces the dollar sign (\$) as the first digit of the COST field.
- The state (ST) field displays the state from which the call originated.

If no ICLID or ANI data is available, CAT Basic identifies incoming calls by printing the IN indicator in the DIALED# field. In these cases — and whenever an **IN** appears in the SMDR data stream — the state shown in the ST field is the state in which the CAT Basic is installed.

Form 5-1. Incoming Call Indicators

| DATE | TIME | EXT | DIALED# | ST | DUR | COST | ACCOUNT | FAC |
|-------|-------|------|-------------|----|-----|----------|-----------|-----|
| 10/16 | 10:22 | 0002 | 18086334466 | HI | 001 | 1000.00 | 123456789 | 00 |
| 10/16 | 10:45 | 0021 | IN | NH | 066 | \$100.50 | 1234567 | 02 |

Codes in the State Field

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 5-1.

Table 5-1. Special Codes in the State Field

| Code | Stands For | Means |
|-------------|-------------------|-----------------------------------|
| 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 | 0+ calls |
| I# | Information | 555-1212 or 411 calls |

Running Standard Reports

To run the standard reports, follow these instructions:

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

The CAT prints:

Form 5-2. 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 the following message, followed by four asterisks telling you that it is preparing to print reports:

Form 5-3. Reset Switch Second Press

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



CAUTION:

Do NOT press the PRINT/RESET button a third time. If you want to print reports, wait.

Standard Reports

Summary by Hour

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

Form 5-4. Summary by Hour Report

| SUMMARY BY HOUR | | | |
|-----------------|-------|----------|---------|
| HOURL | 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 in minutes and total cost for all calls placed over each active trunk or facility.

Form 5-5. 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 in minutes, and the total cost.

Form 5-6. All Extensions Report

| | | | | | | | | |
|----------------------------|-----------|--------|-------------|----|-----|-----------|----------|-----|
| ALL EXTENSION | LAST CALL | 08/10 | 09:23 | | | | | |
| EXTENSION 0021 | | | | | | | | |
| DATE | TIME | EXT | DIALED# | ST | DUR | COST | ACCOUNT | FAC |
| 08/08 | 10:48 | 0021 | 12036334466 | CT | 017 | \$005.75 | 1234 | 01 |
| 08/08 | 13:27 | 0021 | | IN | FD | 010 | \$000.00 | 02 |
| 08/09 | 13:45 | 0021 | 8282301 | NY | 001 | \$000.00 | 12 | 06 |
| TOTAL | | CALLS | DURATION | | | COST | | |
| | | 000003 | 00000028 | | | 000005.75 | | |
| ALL EXTENSION GRAND TOTALS | | | | | | | | |
| TOTAL | | CALLS | DURATION | | | COST | | |
| | | 000021 | 00000089 | | | 000025.07 | | |

Standard Reports

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 in minutes, and cost.

Form 5-7. 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 |

Standard Reports

All Account Detail

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

Form 5-8. All Account Report

| | | | | | | | | |
|-------------|--------------|--------|-------------|----|-----|-----------|---------|-----|
| ALL ACCOUNT | LAST CALL | 08/10 | 09:23 | | | | | |
| ACCOUNT | 1958 | | | | | | | |
| DATE | TIME | EXT | I) DIALED# | ST | DUR | COST | ACCOUNT | FAC |
| 08/08 | 10:48 | 0021 | 12036334466 | CT | 017 | \$005.75 | 1958 | 01 |
| 08/08 | 13:27 | 0021 | | IN | FD | \$000.00 | 1958 | 02 |
| 08/09 | 13:45 | 0021 | 8282301 | NY | 001 | \$000.00 | 1958 | 06 |
| TOTAL | | CALLS | DURATION | | | COST | | |
| | | 000003 | 00000028 | | | 000005.75 | | |
| ALL ACCOUNT | GRAND TOTALS | | | | | | | |
| TOTAL | | CALLS | DURATION | | | COST | | |
| | | 000012 | 00000079 | | | 000023.41 | | |

Standard Reports

All Account Summary

This report lists all the accounts that were active during the reporting period. Each account has a summary line listing the number of calls, the duration in minutes, and the total cost.

Form 5-9. All Account Summary Report

| SUMMARY BY ACCOUNT | | | |
|--------------------|-------|----------|---------|
| ACCT CODE | CALLS | DURATION | COST |
| 12 | 0003 | 000003 | 0001.74 |
| 1234 | 0003 | 000051 | 0018.42 |
| 1958 | 0003 | 000016 | 0001.75 |
| 1962 | 0003 | 000009 | 0001.50 |
| TOTAL | CALLS | DURATION | COST |
| | 0012 | 000079 | 0023.41 |

Standard Reports

Forward Disconnect Report

The Forward Disconnect Detail report provides a chronological list of all calls on which the “far end” party disconnected more than five seconds before your office did.

Form 5-10. Forward Disconnect Reports

| DATE | TIME | EXT | DIALED# | ST | DUR | COST | ACCOUNT | FAC |
|-------|-------|--------|--------------|-----------|-----|----------|----------|-----|
| 10/17 | 14:22 | 0002 | 12014314466' | NJ | 011 | \$002.42 | 123400 | 00 |
| 10/17 | 14:45 | 0002 | 12024315154* | DC | 011 | \$002.53 | 12345678 | 00 |
| 10/17 | 15:23 | 0000 | 14137651000* | MA | 006 | 1000.00 | 1234567 | 00 |
| 10/18 | 15:37 | 0000 | 13125088928* | IL | 001 | 1000.00 | 1234 | 02 |
| TOTAL | | CALLS | DURATION | COST | | | | |
| | | 000004 | 00000029 | 000004.95 | | | | |

⇒ **NOTE:**

Forward disconnect indicators identify two additional categories of call when you connect the CAT Basic to a PARTNER II R3.

- Incoming calls answered by your Automatic System Answer (ASA) or Direct Extension Dial (DXD) feature but not by a person. These call records print 0000 in the Extension (EXT) field instead of an extension number.
- Incoming calls answered by PARTNER MAIL™ or AT&T Attendant but not by a person. These calls are reported as completing to the PARTNER MAIL or AT&T Attendant extension the call reached. With PARTNER MAIL, this occurs regardless of whether the caller leaves a message.

Standard Reports

Both categories of call display an asterisk in the DIALED# field and are included in the Forward Disconnect Report. These listings give you the advantage of seeing exactly what you're missing. Now, when a caller listens to one of PARTNER II R3's automated messages but disconnects before anyone picks up, you'll know about it — what time of day they called and how long they held. And, if you have the ICLID feature, you'll also have their phone number and can call them back.

Standard Reports

Incoming Call Report

The Incoming Call report lists all incoming calls chronologically by extension. It also totals the number and duration of all the incoming calls.

Form 5-11. Incoming Call Report

| INCOMING CALL REPORT | | 10/18 16:12 | | | | | | |
|----------------------|-------|-------------|--------------|-----------|-----|----------|-----------|-----|
| DATE | TIME | EXT | DIALED# | ST | DUR | COST | ACCOUNT | FAC |
| 10/16 | 10:22 | 0002 | 18086334466 | HI | 001 | I000.00 | 123456789 | 00 |
| 10/16 | 11:23 | 0002 | | IN NH | 066 | I000.00 | 1234567 | 00 |
| 10/17 | 00:21 | 0002 | | IN NH | 021 | \$000.00 | 1234567 | 02 |
| 10/17 | 15:23 | 0000 | 14137651000* | MA | 006 | I000.00 | 1234567 | 00 |
| 10/18 | 15:37 | 0000 | 13125088928* | IL | 001 | I000.00 | 1234 | 02 |
| TOTAL | | CALLS | DURATION | COST | | | | |
| | | 000005 | 00000095 | 000000.00 | | | | |

⇒ **NOTE:**

CAT Basic supports all caller identification signals, including Automatic Number Identification (ANI) signals on long distance calls and Incoming Call Identification (ICLID) and other CLASS signals provided by local telephone companies.

For example, if your MERLIN LEGEND™ Communications System captures ANI data and you are using a Signaling System 7 service with ANI — Megacom® 800, for example — the telephone numbers of those calling you will automatically be included in the Incoming Call Detail Report as well as in all your CAT Basic detail reports — the Extension Detail Report, the Account Code Detail Report, and so on.

As was noted at the beginning of this chapter, CAT Basic identifies incoming calls by printing the letter I in place of the dollar sign (\$) as the first digit of the COST field. The state from which the call originated appears in the state (ST) field.

In the absence of ICLID or ANI data, CAT Basic identifies incoming calls by printing the IN indicator in the DIALED## field, along with all the information recorded for any outgoing call — the time, duration, extension, and trunk, everything except the caller's number. Even without the caller's telephone number, this detailed information on incoming calls helps you make full use of your current telephone resources and plan for change.

Appendix A: Rate Update Order Form

A

Rate updates can be ordered by calling your AT&T sales representative at 1-800-247-7000. Each time you order an update, you should review Chapter 4, Options and Parameters, to determine you want to change any setting to meet your company's changing needs. The form in Table A-1 is provided for your convenience.

Table A-1. CAT Basic 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 | |

Appendix A. Rate Update Order Form

| # | Parameter Name | Default | Range | Selection |
|----|--|---------|-----------|-----------|
| 06 | Print Calls Without Account Numbers | Y | Y/N | |
| 07 | Print Incoming Calls | Y | Y/N | |
| 08 | Print Reports Daily | N | Y/N | |
| 09 | Suppress Local Calls | N | Y/N | |
| 10 | Suppress Calls Without Account Numbers | N | Y/N | |
| 11 | Suppress Incoming Calls | N | Y/N | |
| 12 | Print on the Fly | N | Y/N | |
| 13 | Put Calls in Account Report Only | N | Y/N | |
| 14 | New Page Option | N | 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 | |

Appendix A. Rate Update Order Form

| <u>#</u> | <u>Parameter Name</u> | <u>Default</u> | <u>Range</u> | <u>Selection</u> |
|----------|-----------------------|----------------|--------------|------------------|
| 23 | Cost for 411 Calls | 0.00 | 0.00-9.99 | |
| 24 | Account Code Length | 1-9 | 1-9 | |
| 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 A: Rate Update Order Form

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.

Appendix B: CAT PLUS Internal Setup

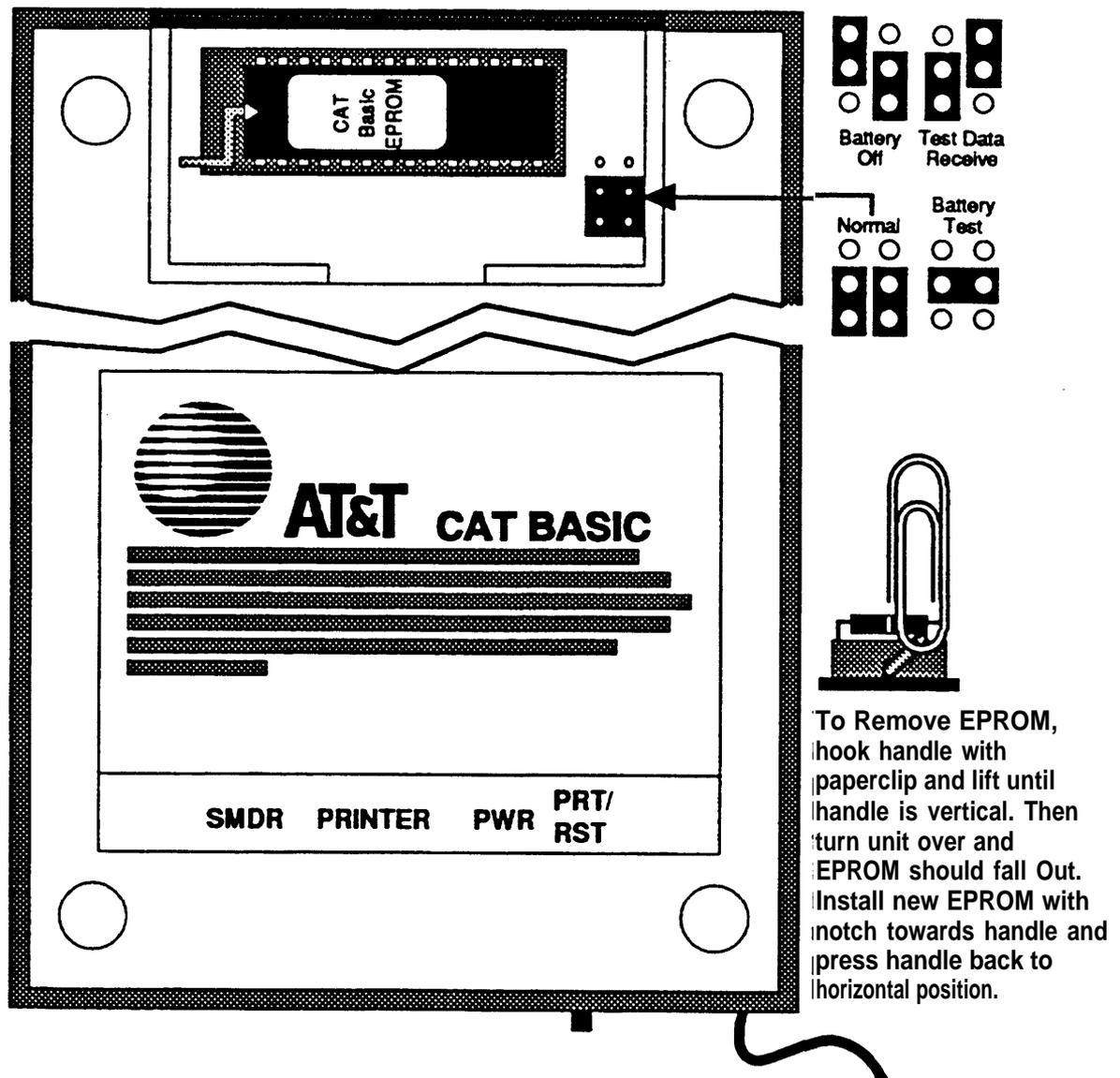


Figure B-1. Location and Settings for Switches and Location of EPROM

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-11 Off Off: SSD+ Pin 11 | |

Appendix C: CAT Printer DIP Switch Settings

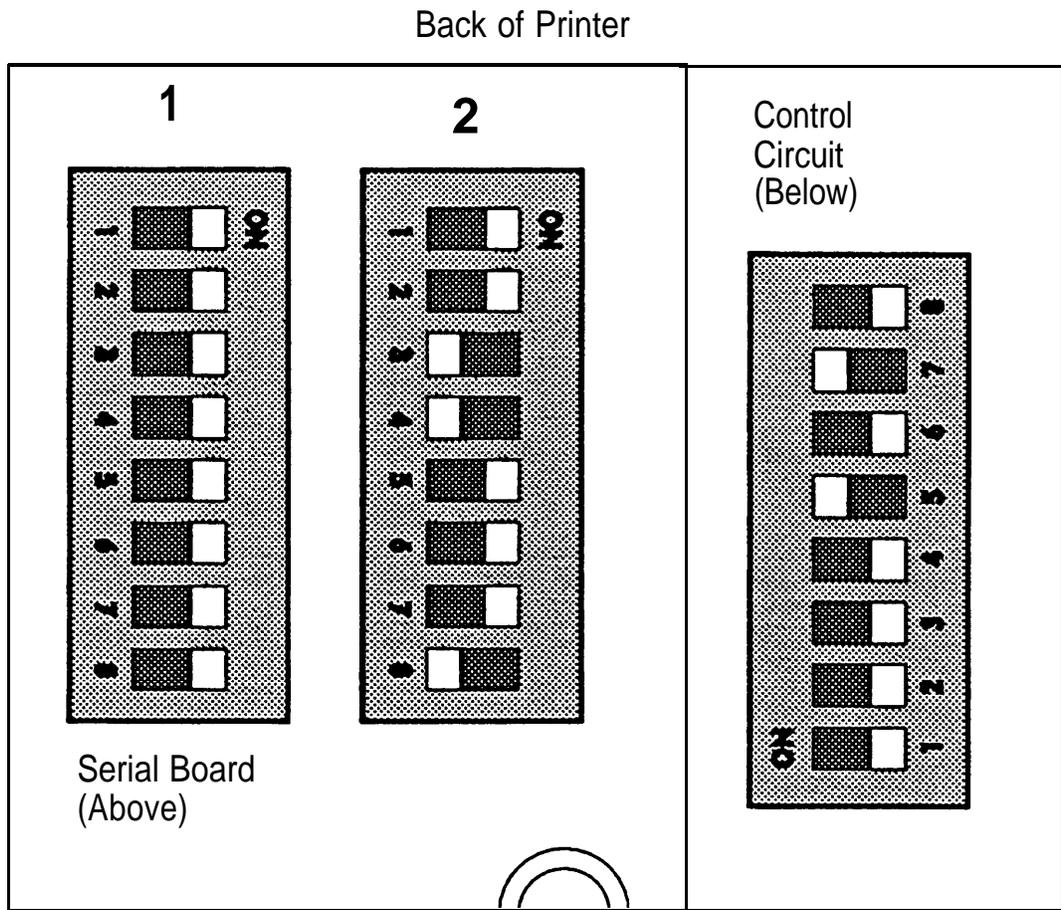


Figure C-1. CAT Printer Switch Settings

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)

| Number | Switch | Setting |
|--------|-----------------------------|-------------|
| 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 : n-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

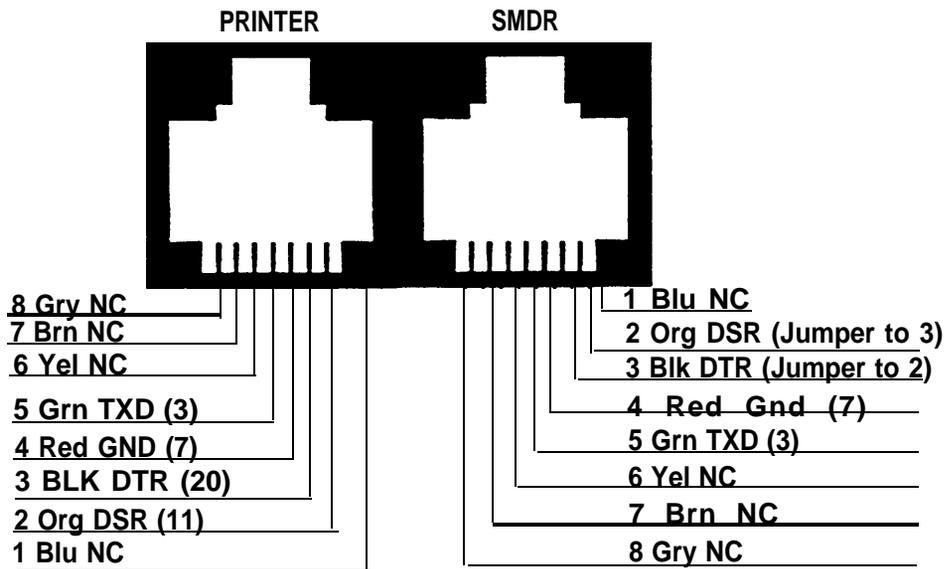


Figure D-1. CAT Basic Pinouts

Appendix D: Pinouts

Index

A

abuse, of long distance, 1-2
account code length parameter, 4-7
account codes, capacity, 1-5
account report only option, 4-4
administration, call reporting options, 3-1
alarm
 85% full, 1-5, 3-11
 printer stalled, 1-5, 3-11
ALARM lamp, CAT Printer, 2-23
alarms, 1-5, 3-11
All Account Detail report, 5-11
All Account Summary report, 5-12
All Extension Detail report, 5-9
All Extension Summary report, 5-10

B

battery backup, capacity, 1-5
billback, 1-2

C

call detail, capacity, 1-5
capacities, 1-5
capacity
 account codes, 1-5
 battery backup, 1-5

call detail, 1-5
extensions, 1-5
lines, 1-5
trunks, 1-5
CAT Basic
 diagnostics, 3-17
 general description, 1-4
 initialization, 3-13
 options, 4-1
 packing list, 2-3
 parameters, 4-1
 testing, 3-16
CAT Printer
 ALARM lamp, 2-23
 connecting cable, 2-20
 control panel, 2-22
 FORM FEED button, 2-22
 installing paper separator, 2-11
 installing ribbon, 2-12
 LINE FEED button, 2-22
 loading paper (bottom), 2-16
 loading paper (rear), 2-18
 MODE button, 2-23
 operating, 2-22
 packing list, 2-5
 PITCH button, 2-23
 POWER lamp, 2-23
 preparing, 2-5
 SELECT button, 2-22
 setting print head gap, 2-15
 shipping retainer, 2-7
 switch meanings, C-1, C-5
 testing, 2-21
 TOP SET button, 2-23
 unpacking, 2-5
 verifying switches, 2-9
client billback, 1-2
communications systems usable with
 CAT Basic, 1-1

Index

cost allocation, 1-2
cost for 0+ calls parameter, 4-5
cost for 411 calls parameter, 4-6
cost for 555 calls parameter, 4-6
cost for 800 calls parameter, 4-6
cost for 900 and 700 calls parameter,
4 - 6
customizing options, overview, 1-8

D

defaults
option, A-1
parameter, A-1
diagnostics
CAT Basic, 3-17
Summary by Facility report, 1-2
DIP switch settings, 2-9, C-1, C-5

E

employee productivity, 1-2
EPROM installation, verifying, 2-3
extensions, capacity, 1-5

F

FORM FEED button, CAT Printer, 2-22
Forward Disconnect
uses, 5-13
Forward Disconnect report, 5-13
free time parameter, 4-4

Index-2

I

Incoming Call report, 5-15
Incoming Calls
Identification, 1-3
Tracking, 1-3
initialization, CAT Basic, 3-13
installation
printer, 2-5
tools, 2-1
installation procedure
50 feet and same power, 3-4
MERLIN PLUS, 3-2
over 50 feet or different power, 3-6

J

jumper settings, verifying, 2-3

L

lamps, 1-5, 3-11
LINE FEED button, CAT Printer, 2-22
line spacing parameter, 4-1
lines, capacity, 1-5
loading paper, bottom feed, 2-16
loading paper, rear feed, 2-18
local call surcharge parameter, 4-6
long distance surcharge parameter, 4-6

Index

M

market analysis, 1-2
MERLIN PLUS
 installation procedure, 3-2
minimum duration parameter, 4-2
misuse, of long distance, 1-2
MODE button, CAT Printer, 2-23

N

network optimization, 1-2
new page option, 4-4
right discount local option, 4-2
night discount parameter, 4-7

O

optimization, network, 1-2
option
 account report only, 4-4
 defaults, A-1
 new page, 4-4
 night discount local, 4-2
 print calls without account, 4-2
 print incoming calls, 4-2
 print local calls, 4-2
 print on-the-fty, 4-3
 print reports daily, 4-3
 suppress calls without accounting
 suppress incoming calls, 4-3

 suppress local calls, 4-3
 zero cost local calls, 4-4
options
 CAT Basic, 4-1

P

packing list
 CAT Basic, 2-3
 CAT Printer, 2-5
paper
 loading bottom feed, 2-16
 loading rear feed, 2-18
parameter
 account code length, 4-7
 cost for 0+ calls, 4-5
 cost for 411 calls, 4-6
 cost for 555 calls, 4-6
 cost for 800 calls, 4-6
 cost for 900 and 700 calls, 4-6
 defaults, A-1
 free time, 4-4
 line spacing, 4-1
 local call surcharge, 4-6
 long distance surcharge, 4-6
 minimum duration, 4-2
 night discount, 4-7
 percentage markup, 4-1
parameters
 CAT Basic, 4-1
percentage markup parameter, 4-1
PITCH button, CAT Printer, 2-23
POWER lamp
 CAT Basic, 1-5, 3-11
 CAT Printer, 2-23
power LED, location, 1-6, 3-12

Index

power outage, diagnostic print, 3-16
power outlet, requirements, 2-1
print calls without account option, 4-2
print head gap, setting, 2-15
print incoming calls option, 4-2
print local calls option, 4-2
print on-the-fly option, 4-3
print reports daily option, 4-3
printer
 installation, 2-5
 operating, 2-22
 switch settings, 2-9
printer cable, connecting, 2-20
printer jack, location, 1-6, 3-12
printer stalled alarm, 1-5, 3-11
productivity, employee, 1-2

R

rate update order form, A-1
report
 All Account Detail, 5-11
 All Account Summary, 5-12
 All Extension Detail, 5-9
 All Extension Summary, 5-10
 Forward Disconnect, 5-13
 Incoming Call, 5-15
 Summary by Facility, 5-8
 Summary by Hour, 5-7
report information, overview, 1-7
report printing, types, 1-7
reports
 activation, 5-1
 can't alter list of, 5-2
 capacity report overrides, 5-2
 running, 5-6

Index-4

special codes, 5-3
resale of service, 1-3
reset switch, location, 1-6, 3-12
ribbon, installing, 2-12

S

SELECT button, CAT Printer, 2-22
site selection, table, 2-2
SMDR jack, location, 1-6, 3-12
special codes
 dialed number field, 5-3
 incoming call indicators, 5-4
 state field, 5-5
Summary by Facility report, 5-8
Summary by Hour report, 5-7
suppress calls without account option,
 4-3
suppress incoming calls option, 4-3
suppress local calls option, 4-3
switch settings, printer, 2-9

T

testing CAT Printer, 2-21
TOP SET button, CAT Printer, 2-23
trunks, capacity, 1-5

Z

zero cost local calls option, 4-4

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