



Smarter Communications Tools

PROPHET- H V2.0

(Hospitality)

Call Accounting System

Installation & Maintenance

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Manchester, NH 03101

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Table of Contents

Page:

Chapter 1 - General Information

Product Overview	1-1
System Components	1-2
Prophet System	1-2
Installation & Maintenance Utility Software	1-2
External Power Transformer	1-2
SMDR / Printer "Y" Cable (CABL-65-002)	1-3
Touchpad	1-3
Touchpad / Printer "Y" Cable (CABL-65-018)	1-3
Service Module	1-3
System Capacities	1-3
Data Output Options	1-4
System Ports and Indicators	1-5
Power LED	1-5
SMDR LED	1-5
Alarm LED	1-5
SMDR Port	1-6
SYSTEM Port	1-6
System Programming Overview	1-7
Introduction	1-7
Factory Direct Purchases	1-8
Non-Factory Direct Purchases	1-8
Access to the Prophet System	1-8
Introduction	1-8
Report Types	1-9
Individual Call Record (Printed "On The Fly")	1-10
Guest Room Call Record Report	1-10
Administrative Extension Call Record Report	1-10
Daily Profit Report	1-11
Month-to-Date Profit Report	1-11

Administrative Call Report	1-12
Telephone Commands	1-12
Command Sequence	1-13
Telephone Command Codes	1-14
Commands from a Touchpad	1-15
Touchpad Command Codes	1-16
Automatic Reports	1-16
Auto Report Time	1-17
Managing Call Record Memory	1-17
Room Status and Revenue Center Billing	1-17
Room Status	1-17
Revenue Center Billing	1-18
Dialing Room Status / Revenue Center Codes	1-18
Sample Room Status Call	1-19
Sample Revenue Center Call	1-19
Application Options	1-20
Print On The Fly	1-20
Touchpad Command Generation	1-21
Reporting to a Property Management System (PMS)	1-22
Adding Remote Access	1-23
Selectable Reporting	1-24
 Chapter 2 - PC Programming	
Introduction	2-1
Factory Direct Purchases	2-1
Non-Factory Direct Purchases	2-2
Programming Methods	2-3
Programming Using a PC	2-4
Customer Data-base & Pricing Tables	2-4
Database Storage	2-4
Utility Program Requirements	2-5
PC to Prophet System Interface	2-6
Hard Disk Procedures	2-7
Floppy Disk Procedures (3 1/2" Only)	2-8
Installation & Maintenance Utility Overview	2-9

Menu Structure	2-11
Installation Flowchart for Prophet-H	2-12
Prophet-H (I&M Software) Installation Flowchart	2-13
Database Maintenance Flowchart for Prophet-H	2-15
Prophet-H (I&M Software) Database Maintenance Flowchart	2-13
 Chapter 3 - Direct Programming	
Introduction	3-1
Factory Direct Purchases	3-1
Non-Factory Direct Purchases	3-2
Programming Methods	3-3
Programming Using a Programming Terminal	3-4
Customer Database & Pricing Tables	3-4
Terminal to Prophet System Interface	3-5
Programming Guidelines	3-6
Menu Structure	3-7
Main Menu	3-7
System Data Menu	3-8
Report Menu	3-10
Label Menu	3-14
Output Options	3-15
Overview	3-15
Setting the Output Option	3-16
Setting Date and Time	3-17
Setting the Date	3-17
Setting the Time	3-18
Administrative Extension Programming	3-19
Entering Administrative Extensions	3-19
Room Status / Revenue Center Programming	3-21
Label Menu	3-21
Defining Room Status Labels	3-21
Defining Revenue Center Labels	3-23
System Data Menu Programming	3-25
Property Code	3-25

Grace Period	3-26
Operator Surcharge	3-26
Length of Form	3-27
SMDR Baud Rate	3-27
Auto Report Time	3-28
Rate Table Programming	3-29
Overview	3-29
Entering Rate Table Values	3-31
Printing Rate Table Values	3-34
Identifying the Customer's Rate Table Assignments	3-35
Setting the Pricing Controls for each Table	3-38
Call Pricing Sequence	3-40
System Parameters	3-40
Chapter 4 - Hardware Installation	
Introduction	4-1
RS-232 Interface	4-1
Prophet System Serial Ports	4-1
Physical Installation	4-2
Equipment Required for Installation	4-2
Hardware Placement & Handling	4-3
Connecting for System Test	4-5
Preparing the PC for System Test	4-6
Direct Mode Standalone Preparation (PC or Programming Terminal)	4-9
Direct Mode Test Sequence (PC or Programming Terminal)	4-13
SMDR Diagnostics Format	4-15
Restoring (Pre-Test) Programming	4-16
Final System Configuration	4-18
Configuring for Telephone Commands	4-19
Configuring for Touchpad Commands	4-22
Configuring for Property Management System (PMS)	4-24
Appendix	
Section A	
System Specifications	A-1
Electrical Specifications	A-1

Mechanical Specifications	A-1
Environmental Parameters	A-1
Section B	
Wall Mounting	B-1
Section C	
Factory Default Hardware Settings	C-1
System & SMDR Port Data Parameters	C-2
System Port J1 Peripheral Interface	C-2
Printer Interface	C-3
Factory Default Program Settings	C-4
Section D	
RS-232 Principals	D-1
PBX to Prophet Wiring Diagram (with SMDR "Y" Cable)	D-2
Pin Functions	D-3
Cable Limitations	D-5
Section E	
SMDR Port Cabling	E-1
SYSTEM Port to Printer Cabling	E-2
SYSTEM Port to Printer / Touchpad Cabling	E-2
SYSTEM Port to Personal Computer Cabling	E-2
SYSTEM Port to Property Management System (PMS) Cabling	E-2
Service Module Cabling	E-6
SYSTEM Port to Modem Cabling	E-7
Section F	
Installation Sequence	F-1
EQUIPMENT THAT WILL BE REQUIRED ON SITE	F-3
INSTALLATION ON SITE	F-3
Command Quick Reference	F-8
OUTPUT OPTIONS	F-8
COMMONLY USED RATE TABLE LOCATIONS	F-9
MAIN MENU (Press <ESC>)	F-10
Sample Printer / Touchpad Interface	F-11
Sample PMS Interface	F-12
Section G	

Service Module	G-1
Wall Mounting	G-1
Interconnection	G-2
Operation	G-3
Section H	
Prophet-H - Rate Table Programming Parameters	H-1
Pricing Parameters (USED IN ALL RATE TABLES)	H-1
System Operational Parameters & Control Flags (USED IN RATE TABLE 1 ONLY)	H-2
Room Service/Revenue Center Parameters (USED IN RATE TABLE 1 ONLY)	H-3
OCC Parameters (OCC's greater than 5 digits)	H-3
PMS Parameters (USED IN RATE TABLE 1 ONLY)	H-4
Diagnostic Mode (USED IN RATE TABLE 1 ONLY)	H-5
PBX Operational Parameters (USED IN RATE TABLE 1 ONLY)	H-5
Pass Wake Up & Special messages (USED IN RATE TABLE 1 ONLY)	H-8
Telephone Command Reporting (USED IN RATE TABLE 1 ONLY)	H-8
Unused Locations (USED IN RATE TABLE 1 ONLY)	H-8
Common Area Code and Exchange Modifications	H-9
Section I	
HOSPITALITY PRICING	I-1
Cost Computation	I-1
Profit Computation	I-1
Cost Plus Profit	I-1
Special Pricing	I-2
Section J	
Operation with a Property Management System (PMS)	J-1
Sample PMS / Prophet-H Protocol	J-2
Section K	
ASCII Code Chart	K-1
Section L	
Prophet-H Touchpad	L-1
Installation	L-1
LISTING OF AVAILABLE COMMANDS	L-2
Section M	
Prophet-H Telephone Reporting	M-1
Operation	M-1

Telephone commands

M-2

Chapter 1

General Information

Product Overview

The Prophet Series is a family of stand-alone call accounting systems designed to operate with telephone systems that have SMDR (Station Message Detail Recording) capability.

The Prophet system collects SMDR data, stores the formatted call records into system memory and then prices the call records as reports are generated. Reports may be generated *Automatically*, or *On Demand* using either a telephone extension, a touchpad or programming terminal.

Call record information is delivered to a serial printer, or Property Management System (PMS) / serial printer combination.

A service module included as part of the installation permits remote database maintenance and system diagnostics by providing *input/output* selection between two devices such as a PMS and modem.

The Prophet system's *Room Status / Revenue Center Billing* feature enables tracking of housekeeping, maintenance and occupancy (Room Status), or billing of services / purchases to the room (Revenue Center Billing). This information is dialed through the telephone switch, translated by the Prophet system and then printed immediately for posting.

NOTE: Programming modification of the telephone system may be required to enable this feature.

A PC based Installation & Maintenance Utility software is provided with the system to automate system programming, facilitate modifying an existing database and store the database on diskette for backup. Programming may also be accomplished using a programming terminal and direct programming methods as outlined in Chapter 3 - Direct Programming.

The Prophet system contains a standard default database controlling profit markups, surcharges, grace period, etc. These defaults are shown in Appendix C.

System Components

Prophet System

A stand-alone call processing unit designed for table top or wall mounting. The Prophet System collects call records from the telephone switch and automatically learns all extensions as guest rooms, pricing calls at cost, plus a profit markup and surcharge. Administrative extensions are programmed into the Prophet system by the installer and will be priced at the cost of the call without markup.

Installation & Maintenance Utility Software

The Prophet systems' default database can be modified using a programming terminal or a PC and the Installation & Maintenance Utility Software supplied with the system. This Installation & Maintenance program is a PC-based software utility permitting the distributor to automate system programming, store a backup of the system database and rate tables on diskette, remotely download rate tables from the factory, transfer rate tables into the Prophet system and copy the customer database into or from the Prophet system. Database transfers can be accomplished through direct connection to the Prophet system, or remotely using modems.

External Power Transformer

UL/CSA approved external power transformer that converts 115Vac to 10Vac.

SMDR / Printer "Y" Cable (CABL-65-002)

This 1 x 12 ft cable is equipped with a 9-pin female connector to interface with the Prophet systems' SMDR port, a 25-pin female connector to interface to the SMDR cable coming from the telephone switch, and a 25-pin male connector for direct connection to a printer in applications using a Property Management System or when call records will be both stored and printed " On the Fly" .

Touchpad

This keypad provides direct, " fast access" reporting capability and is used in conjunction with a serial printer for report output.

Touchpad / Printer "Y" Cable (CABL-65-018)

This 12 x 3 ft cable is equipped with a 9-pin female connector to interface with the Prophet systems' SYSTEM port, a 25-pin male connector to interface to the serial printer, and a 9-pin female connector to interface with the touchpad (for applications using touchpad " fast access" reporting).

Service Module

An electronic switch which directs input/output between a modem for remote control and the local printer/touchpad or PMS. The service module gives priority to the modem when in an ONLINE condition. The service module incorporates selectable input/output routing for remote diagnostics (refer to Appendix G).

System Capacities

<i>Model</i>	<i>Call Records</i>	<i>Extensions</i>	<i>Trunks</i>	<i>PMS Interface</i>
Prophet H-3	1,000	300	Unlimited	Standard
Prophet H-10	1,000	10,000	Unlimited	Standard

Data Output Options

The Prophet system can deliver call records to a number of devices, either individually or in combination. The output is determined by setting the " Output Option" (refer to Chapter 3 - Direct Programming).

Available options control whether:

- guest room and/or administrative call records should be stored or printed " On the Fly" .
- Call records should be passed out the SYSTEM port (J1) only or both SYSTEM port (J1) and SMDR (J2) for Property Management Systems with backup serial printers.
- Call records should be passed out the SYSTEM port (J1) " On the Fly" in a PMS format.

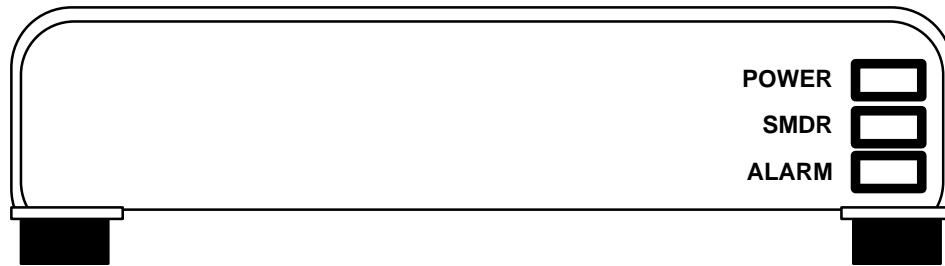
The method of call record reporting of either guest room or administrative calls can be defined independently (i.e. printing administrative calls " On the Fly" while storing guest room calls).

Call records directed to a PMS will always be passed " On the Fly" regardless of whether call record storage was also selected. Handshaking is provided between Prophet system and PMS for those systems supporting this protocol.

Call records which have not been acknowledged by the PMS (i.e. PMS down or being serviced) will be passed out the Prophets' SMDR port to a backup serial printer.

System Ports and Indicators

Front Panel



Prophet System Front Panel

Figure 1-1

Power LED

The GREEN POWER LED on the front power should be lit at all times indicating power is available to the unit. If this LED is OFF, call records will be stored in 10 year, battery backed RAM. Input or output of call records cannot be accomplished until power is restored to the unit.

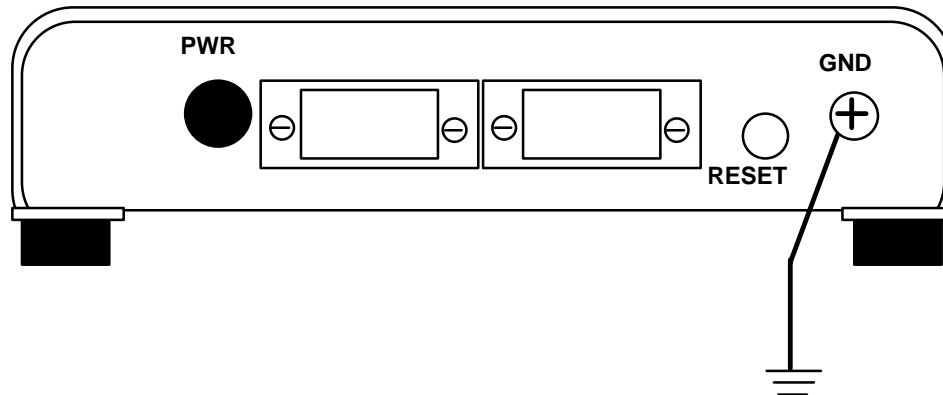
SMDR LED

The YELLOW SMDR LED flashes whenever call data is being received from the telephone switch. This LED indicates data input only. Interpretation and subsequent storage of call record data is dependent upon a match between the telephone switch and Prophet system SMDR port in baud rate, data bits, parity, stop bits and type of telephone switch parameters programmed into the Prophet system (refer to Appendix C for the default parameters).

Alarm LED

The RED ALARM LED along with an AUDIBLE ALARM indicates that the output device (printer, PMS, PC etc.) is not ready to receive data. This LED and audible alarm is activated by a LOW condition provided by the output device to pin 6 of the SYSTEM or SMDR port (i.e. printer out of paper, printer in an OFFLINE or DESELECTED condition, etc.).

Rear Panel



Prophet System Rear Panel

Figure 1-2

SMDR Port

The SMDR port (J2) receives call record data, telephone report, room status and revenue center billing commands from the telephone switch, causing the YELLOW SMDR LED to flash.

Output of call reports to a serial printer is available for those applications using either a Property Management System or requiring both call record storage and print "On the Fly" .

The baud rate of the SMDR port is software programmable, functions independent of the SYSTEM port and requires a system "RESET" (pressing the reset button) after any change.

Interpretation and subsequent storage of call record data is dependent upon a match between the telephone switch and Prophet system SMDR port in baud rate, data bits, parity, stop bits and type of telephone switch parameters programmed into the Prophet system (refer to Appendix C for the default parameters).

SYSTEM Port

The SYSTEM port (J1) receives requests for reports from a touchpad (if not using telephone commands) and can also be programmed using either a programming terminal or a PC with the Installation & Maintenance Utility software.

Call record reports are sent to a printer, terminal or Property Management System. The baud rate of the SYSTEM port is controlled by the setting of DIP switches within the Prophet system, functions independent of the SMDR port and requires a system " RESET" (pressing the reset button) after any change.

Interpretation and response to input commands and proper output to printer is dependent upon a match between the terminal / PC / touchpad / Property Management system, Prophet system and printer (if connected) in baud rate, data bits, parity, stop bits and type of Property Management System parameters programmed into the Prophet system (refer to Appendix C for the default parameters).

System Programming Overview

Introduction

The preferred method of programming or database modification is with the aid of the Installation & Maintenance Utility software. With this powerful software package running on a desktop or laptop personal computer, the technician can quickly and efficiently program the Prophet system.

The Installation & Maintenance Utility software enables you to set parameters in the following categories in order to prepare the Prophet system for installation at the customer site:

- Selecting telephone switch type
- Selecting PMS interface (optional)
- Entering administrative extensions (optional)
- Entering system operational parameters
- Entering Room Status/Revenue Center Parameters (optional)
- Setting system options
- Loading pricing rate tables

If a PC is not available, direct programming or database modification can be performed using a programming terminal (refer to Chapter 3 - Direct Programming).

Factory Direct Purchases

Systems purchased factory direct will be pre-programmed with the database parameters for the end-users telephone switch, rate tables and Property Management System (if applicable). Administrative extensions and selection of the " Output Option" need to be entered by the installer in order to place the Prophet system into service.

Non-Factory Direct Purchases

Systems not purchased factory direct will require that the installer program the end-users telephone switch, administrative extensions, " Output Option" , add end-user modifications to the default database, down load rate tables from the factory and then transfer them into the Prophet system (Personal Computer and Installation & Maintenance Utility Software required).

Access to the Prophet System

Introduction

The Prophet System provides several methods in which to generate reports or issue programming commands. These methods include:

- Using the auto report program to allow the system to automatically generate reports on a daily basis at a time specified by the user.
- Dialing report commands from a telephone extension which are then passed through the telephone systems' SMDR data stream into the Prophet system for processing.
- Using a directly connected programming terminal or touchpad to perform report generation.

- Using a directly connected Property Management System (PMS) to store and generate room reports in a format determined by the PMS.

NOTE: When a Property Management System (PMS) is in use, call records are priced and immediately passed to the PMS for storage.

- Connecting a modem to extend access to remotely located personal computers for remote database maintenance or upgrading of pricing tables as required.

Report Types

Reports can be generated either *On Demand* or *Automatically*. Output is determined by the OUTPUT OPTION (*See page 3-15*).

Available reports include:

- Individual Guest Call Record (printed " On the Fly").
- Individual Administrative Call Record (printed " On the Fly").
- Guest Room Call Record Report. (part of nightly audit report).
- Administrative Extension Call Record Report (part of nightly audit report).
- Daily Profit Report (part of nightly audit report).
- Month-To-Date Profit Report (*See appendix H location 197*).
- Administrative Call Report Report (part of nightly audit report *See appendix H location 095*).

INDIVIDUAL CALL RECORD (PRINTED "ON THE FLY")

0023	ABC	01/21	0420	08:58	4.3	\$3.12	8	12123920077
0024	ABC	01/21	1104	09:15	5.7	\$4.27	8	16172734526
0025	ABC	01/21	1217	09:41	3.5	\$2.99	8	13025721744
0026	ABC	01/21	0237	10:15	2.6	\$1.14	8	12126750722
0027	ABC	01/21	0101	10:35	2.3	\$0.50	9	6254050
0028	ABC	01/21	0101	10:47	1.7	\$0.50	8	18006415400

SEQ #	PROPERTY CODE	DATE	EXTENSION #	TIME	DURATION	BILLED	DIALED NUMBER
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Individual Call Record (Output Option 00)**Figure 1-3****GUEST ROOM CALL RECORD REPORT (included with Nitely Audit Report)**

0023	ABC	01/21	0420	08:58	4.3	\$3.12	8	12123920077
0034	ABC	01/21	0420	11:54	1.4	\$0.75	9	6254053
0053	ABC	01/21	0420	16:21	10.7	\$8.25	8	14157533168
0055	ABC	01/21	0420	16:45	8.2	\$7.19	8	16178842130
0058	ABC	01/21	0420	17:09	5.7	\$1.55	0	17073627678
0420 01/21/91 23:59 TOTAL BILLED \$21.36								

Guest Room Call Record Report**(Store Guest Calls Using Output Option 04 or 12, see page 3-15)****Figure 1-4****ADMINISTRATIVE EXTENSION CALL RECORD REPORT (included with Nitely Audit Report)**

0026	ABC	01/21	0237	10:15	2.6	\$1.14	8	12126750722
0035	ABC	01/21	0237	11:54	1.7	\$0.00	9	5720900
0044	ABC	01/21	0237	13:17	12.1	\$4.89	8	18183327700
0046	ABC	01/21	0237	13:51	5.5	\$0.00	9	6737700
0049	ABC	01/21	0237	14:29	5.7	\$1.55	0	12136679900
0237 01/21/90 23:59 TOTAL BILLED \$07.58								

Administrative Extension Call Record Report**(Store Admin Calls Using Output Option 08 or 12, see page 3-15)****Figure 1-5**

DAILY PROFIT REPORT (included with Nitely Audit Report)

01/20/91 23:59 TO 01/21/91 23:59

TYPE OF CALL	# CALLS	MINUTES	COST	BILLED	PROFIT
INTERSTATE	31	168	67.20	168.00	100.80
INTRASTATE	8	57	21.66	39.28	17.62
INTERNATIONAL	3	21	87.20	193.77	106.57
LOCAL	18	56	8.40	13.50	5.10
FLAT RATE	56	211	15.60	36.40	20.80
OPERATOR ASSIST	8	96	0.00	12.40	12.40
TOTALS	124	609	200.06	463.35	263.29

Daily Profit Report
Figure 1-6

MONTH-TO-DATE PROFIT REPORT

01/03/91 23:59 TO 01/30/91 23:59

TYPE OF CALL	# CALLS	MINUTES	COST	BILLED	PROFIT
INTERSTATE	682	3696	1478.40	3696.00	2217.60
INTRASTATE	176	1254	476.52	864.14	387.64
INTERNATIONAL	66	462	1918.40	4262.94	2344.54
LOCAL	396	1232	184.80	297.00	112.20
FLAT RATE	1232	4642	343.20	800.80	457.60
OPERATOR ASSIST	176	2112	0.00	272.80	272.80
TOTALS	2728	13398	4401.32	10193.70	5792.38

Month-To-Date Profit Report
Figure 1-7

ADMINISTRATIVE CALL REPORT (included with Nitely Audit Report)

01/21/90 23:59 TO 01/22/90 23:59			
TYPE OF CALL	# CALLS	MINUTES	COST
INTERSTATE	6	29	11.89
INTRASTATE	15	63	20.16
INTERNATIONAL	0	0	0.00
LOCAL	37	183	0.00
FLAT RATE	12	49	0.00
OPERATOR ASSIST	1	7	0.00
TOTALS	71	331	32.05

Administrative Call Report**Figure 1-8**

NOTE: See Output Options page 3-15 for reporting details. PMS interface add 03 to the suggested output option given with the reports above.

Telephone Commands

The Prophet System can be programmed to generate reports from a single user' *administrative* telephone extension or to provide this access through any *administrative* extension connected to the telephone system. Reports are generated by accessing an outside line and dialing the telephone command access code followed by the desired report command sequence. The factory default access code is 200.

CAUTION: If telephone command reporting will be used, place a printer on the telephone switch SMDR port and dial all telephone commands to ensure that the telephone switch can support these commands.

Command Sequence

Report generation is accomplished by using the following sequence:

1. Pick up the handset and obtain an outside line (dial " 9" if necessary).
2. Dial the three-digit Prophet access code followed by the desired report's command digits.
3. Wait ten seconds (or longer than your telephone system's grace period), then hang up.

Example:

To generate a Month-To-Date Profit report without clearing, use an administrative extension to dial:

9 200 422

NOTE: The access code used by the Prophet system is any three digit number (i.e. unused area code) that is passed out the SMDR port of the telephone system. Appendix H, Rate Table 1 positions 190 - 196 control the access code and authorized administrative extension number for dialing reports.

Administrative telephone extensions are programmed into the "Admin. Table" of the Prophet system by the installer.

**Telephone
Command
Codes**

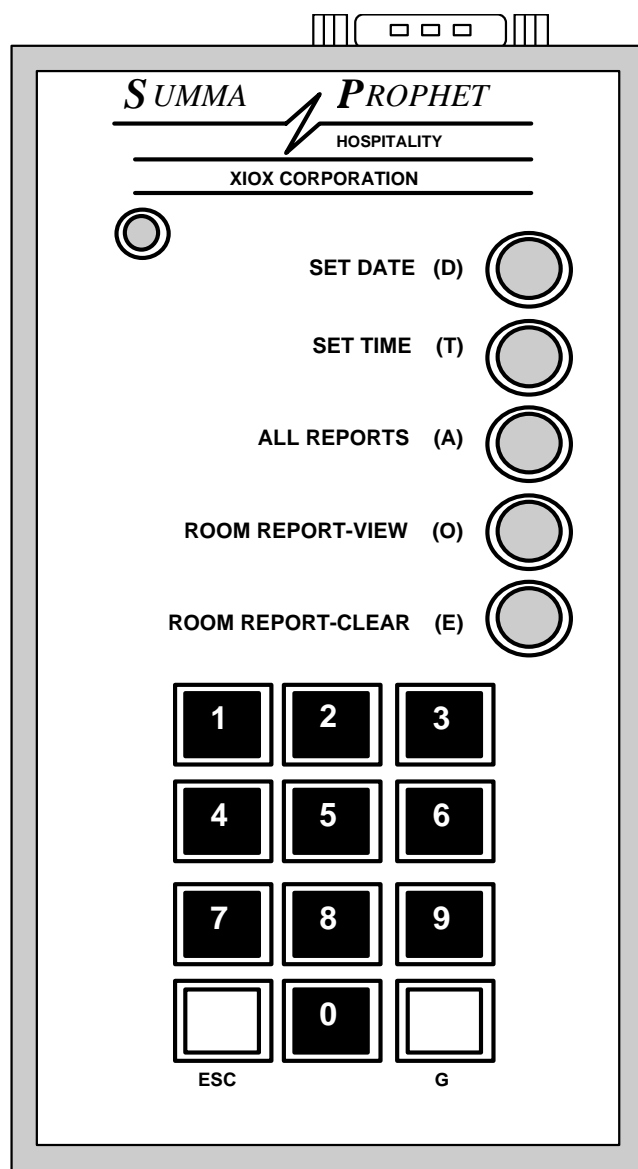
Commands available from a telephone extension include:

- [] [] [] 1ddmmyyw dd=day
 mm=month
 yy=year
 w=day of week (Sun=1, Sat=7)
- [] [] [] 2hhmm hh=hour (in 24 hr format)
 mm=minutes
- [] [] [] 3aaaa room report & clear from memory
 aaaa = room number (0000 for all)
- [] [] [] 410 daily profit report
- [] [] [] 421 month to date report & clear
- [] [] [] 422 month to date report & do not clear
- [] [] [] 431 administrative call report & clear
- [] [] [] 432 administrative call report &
 do not clear
- [] [] [] 5aaaa room report & do not clear
 aaaa = room number (0000 for all)
- [] [] [] 00 cancel an all rooms report

NOTE: [] [] [] represents the three digit access code. Default = "200".

Commands from a Touchpad

This method of report generation is highly recommended for properties without a PMS.



(Part Number: 00008002100)

Touchpad
Figure 1-9

Touchpad Command Codes

Commands available from a touchpad include:

- Dddmmyyw dd=day
 mm=month
 yy=year
 w=day of week (Sun=1, Sat=7)
- Thhmm hh=hour (in 24 hr format)
 mm=minutes
- Eeeee room report & clear from memory
 eeee = room number (0000 for all)
- A1 daily profit report
- A21 month to date report & clear
- A22 month to date report & do not clear
- A31 administrative call report & clear
- A32 administrative call report &
 do not clear
- Oeeee room report & do not clear
 eeee = room number (0000 for all)
- <ESC> cancel an all rooms report

Automatic Reports

The *Auto Report Time* value sets the time of day that the system will generate automatic reports. The system default for this value is 23:59 (midnight).

Any call records in memory will be printed at the time selected for auto reporting, followed by a *Daily Profit Report*. The auto reporting feature acts as a memory management aid by clearing call records once the printout has been completed.

Auto Report Time

Auto reports are enabled by setting the time to any period with the exception of 00:00 and disabled by setting the auto report time to 00:00.

NOTE: *Auto Reporting should be enabled if administrative calls are being stored (See page 3-15).*

Managing Call Record Memory

Call record memory is automatically managed by the Prophet system. If call record memory exceeds 90% of call storage capacity, a report of all calls will be run by room or extension number and then memory will be cleared.

The complete delivery of such a full report may take quite some time. Pressing <ESC> on the touchpad or dialing the " Cancel" command from the assigned administrative extension will interrupt the process of a full report so that a specific room report may be requested.

Storage of calls from administrative extensions should be coupled with enabling the daily auto report to prevent activation of the 90% " All calls report" .

Room Status and Revenue Center Billing

This feature provides a means of tracking room status or billing of purchases to the guest room.

Room Status

The status of a room can be passed through the telephone switch SMDR to the Prophet system in the form of a dialed number. The Prophet system translates the dialed number into the appropriate room status and prints the information to a printer. Room status codes can be dialed from any telephone extension (guest room or administrative) that is connected to the telephone switch.

Revenue Center Billing

Revenue Center billing to a room can be passed through the telephone switch SMDR to the Prophet system in the form of a dialed number. The Prophet system translates the dialed number into the appropriate revenue center, charges and room assignment and prints the information to a printer. Revenue Center codes can be dialed from administrative telephone extensions only that are connected to the telephone switch. These extensions must be entered into the Prophet system's administrative extension table.

Dialing Room Status / Revenue Center Codes

Room Status / Revenue Center Billing records are translated by the Prophet system and then printed immediately for posting. The dialing sequence for entry of these call records follows the pattern:

aaa bcd rrrr ppppp

where:

aaa	= the room/revenue center access code
bcd	b = 1 always
	c = 1 for a room status record
	c = 2 for a revenue center record
	d = 0 through 9 for the correct label

NOTE: The label refers to the code representing either the status of the room or the revenue center submitting the billing information.

rrrr = the room number

NOTE: The room number is optional in room status records; if no room number is entered, the system uses the number of the extension where the call was placed.

ppppp = the price, including cents.

NOTE: When a price is entered, it must be at least 2 digits in length (ex: 50 = \$0.50; 125 = \$1.25). If no price is entered, \$0.00 will be used by the system.

Sample Room Status Call

Dialed number of: 600 111 1432, generates a Call Record of:

**Ext. 1432 10/05/89 14:22 Room 1432 Status: Room
Dirty**

Sample Revenue Center Call

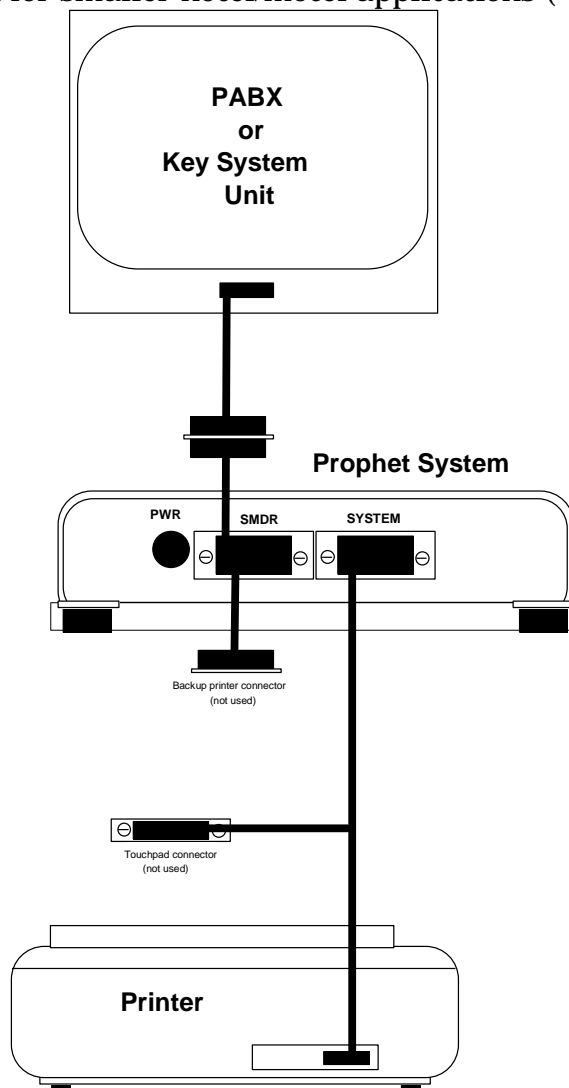
Dialed number of: 600 120 1432 1256, generates a Call Record of:

Ext. 1432 10/05/89 14:22 Room 1432 \$12.56 Gift Shop

Application Options

Print On The Fly

Figure 1-10 illustrates the basic configuration required to print immediately as calls are received. This configuration is normally used for smaller hotel/motel applications (≈50 rooms or less).



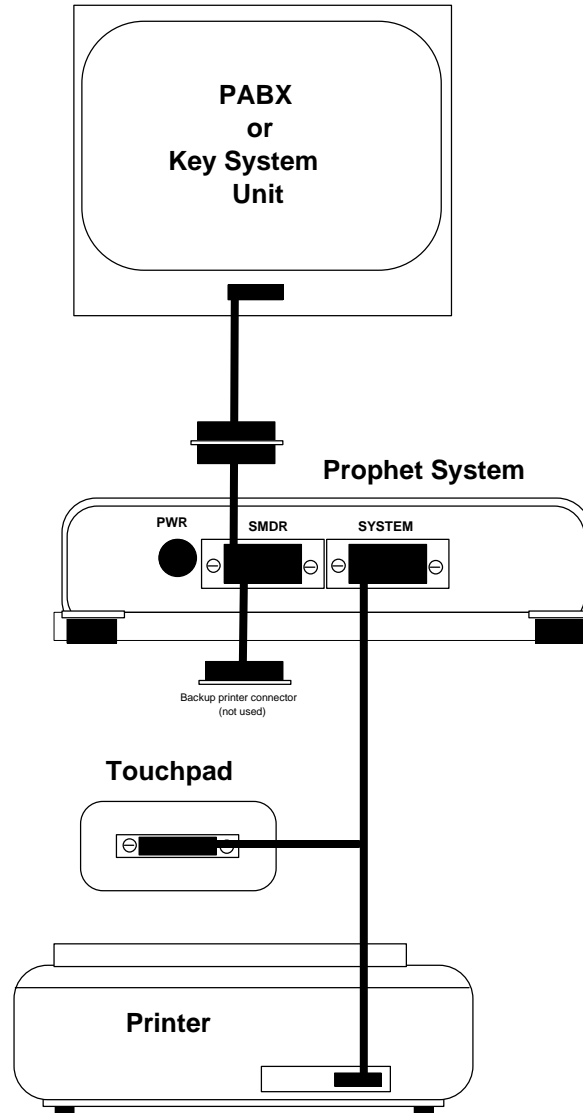
Print “On the Fly” Configuration (Hotel/Motels ≈50 rooms or less)

Figure 1-10

Output Option is set to 00 or 08 (see page 3-15).

Touchpad Command Generation

Figure 1-11 illustrates a configuration using a "Y" cable to interface the SYSTEM (J1) port with both touchpad and printer.



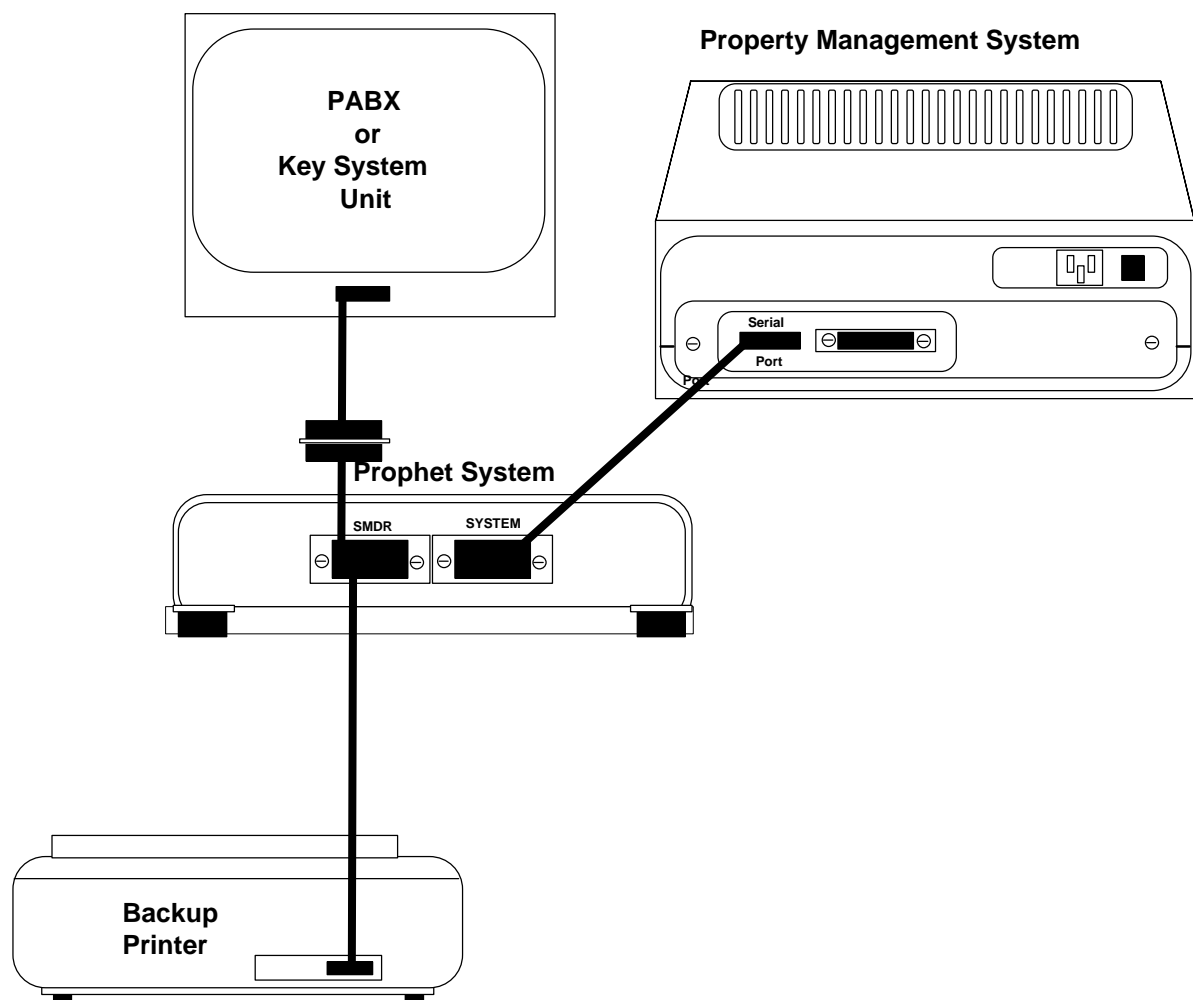
Touchpad Command Configuration (Hotel/Motels ≈ 250 rooms or less)

Figure 1-11

The touchpad / printer combination provides rapid access reporting and is highly recommended for all standalone installations which do not report directly to a Property Management System (PMS). Output Option 00, 04, 08, or 12 is used (*see page 3-15*).

Reporting to a Property Management System (PMS)

Figure 1-12 illustrates a configuration using a Property Management System (PMS) to store call records.



Reporting to a Property Management System (Hotel/Motels with a PMS)

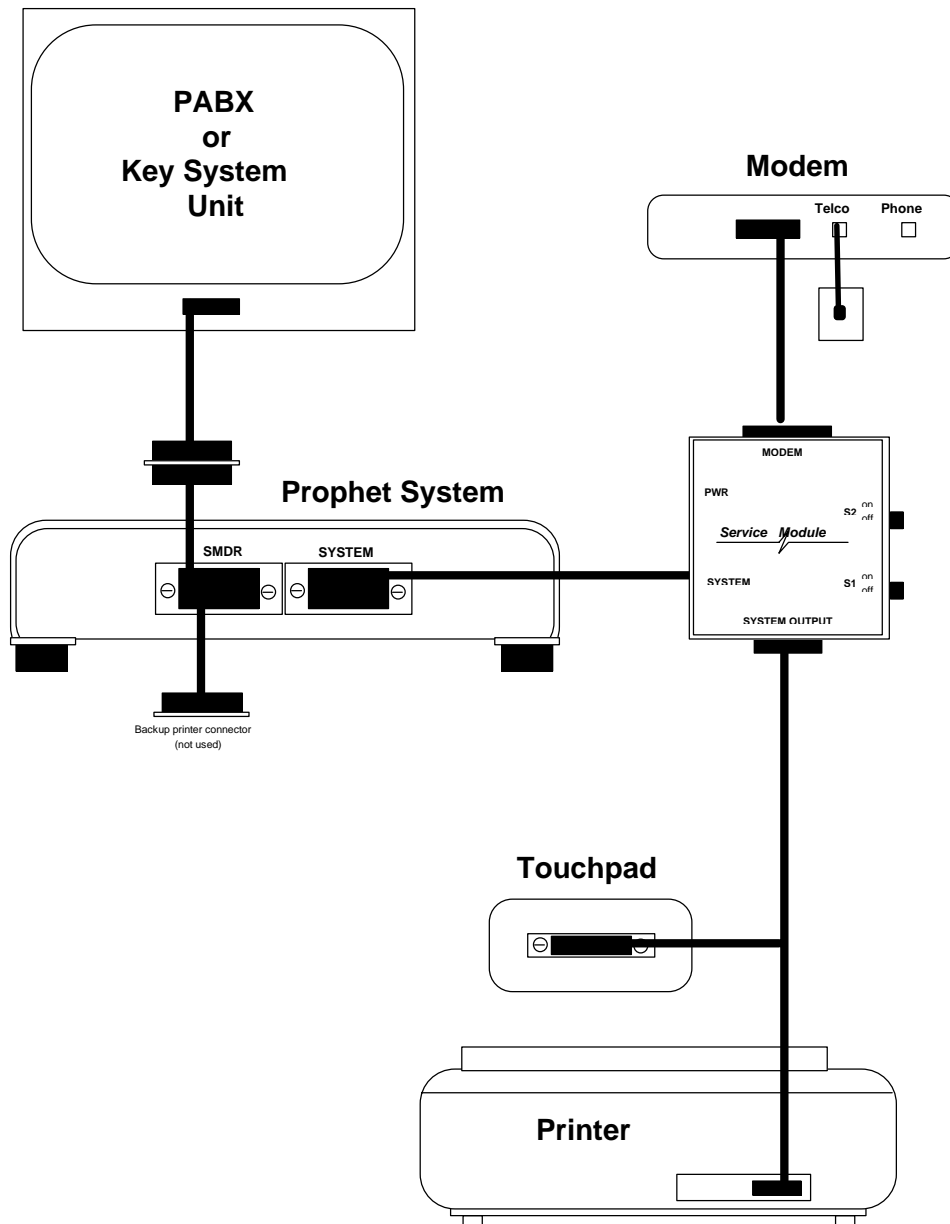
Figure 1-12

The Property Management System receives priced call records from the Prophet system as they occur.

Output Options 03, 07, 11 or 15 are used (*see page 3-15*).

Adding Remote Access

Remote access can be added to any one of the above configurations by placing a service module in series with the Prophet SYSTEM port. Figure 1-13 shows an example using the touchpad / printer configuration.



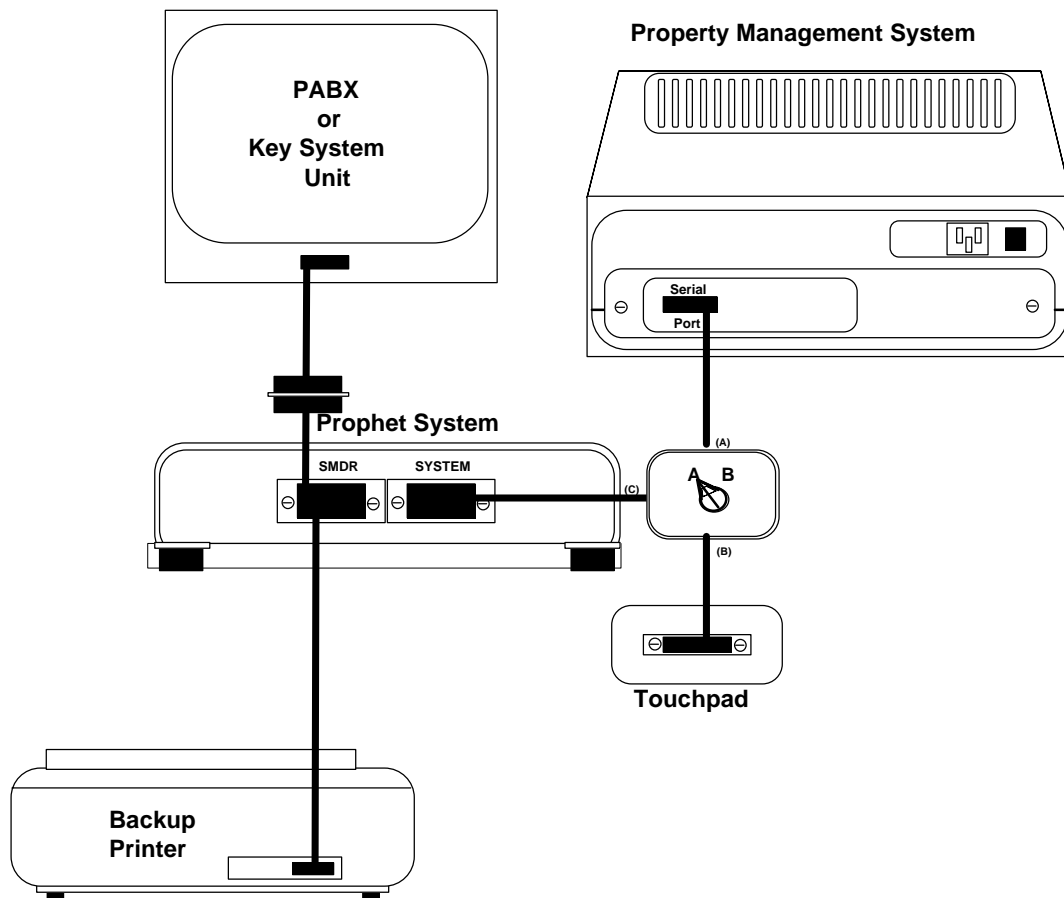
Adding Remote Access Using a Service Module
Figure 1-13

Remote access allows the distributor to provide remote database maintenance and rate table updates using the Installation and Maintenance Utility Software.

The service module automatically switches control to the modem when it is placed ONLINE by an incoming call.

Selectable Reporting

An A/B switch is shown in Figure 1-14 to combine reporting to a Property Management System with the touchpad / printer configuration.



Adding Selectable Reporting Using an A/B Switch
Figure 1-14

In the event of PMS failure, control can be switched over to the touchpad and reports will be sent to the backup printer. When selecting touchpad reporting, press <ESC> "G" to DISABLE PMS mode and before switching back to the PMS, press <ESC> "G" again to ENABLE PMS mode. The status of PMS mode will be printed on the backup printer.

Introduction

Prior to placing the Prophet call accounting system into service, the system must contain programming to include:

- System database identifying input/output, special pricing and auto reporting parameters (refer to Appendix C for the default program parameters).
- Telephone switch parameters matching the SMDR format of the call record expected. This selection determines whether the call record is accepted by the Prophet system and ensures proper interpretation of the call data.
- Rate tables tailored to price from the installation site to number dialed.
- Property Management System parameters (if applicable) matching the protocol required by the PMS to pass priced call record data in a format and with appropriate handshaking between Prophet and PMS.

Factory Direct Purchases

Systems purchased factory direct are pre-programmed for the installer prior to shipment and contain:

- A *default* system database.
- The end-users telephone switch parameters
- Rate tables specific to the installation site.

NOTE: Subsequent rate table updates may be remotely downloaded (factory to PC) by the distributor

– OR –

Purchased separately on diskette and then transferred to the Prophet system.

An IBM compatible computer and the Installation & Maintenance Utility Software are required to perform a rate table transfer (refer to Utility Program requirements page 2-5).

- The end-users Property Management System parameters (if applicable).

The installer must program:

- The administrative extensions identifying those extensions to be priced *at cost*.
- The Output Option to set print " On the Fly" , Store or output to PMS and backup printer.

NOTE: To facilitate site installation and system test, the "Output Option" is defaulted to print "On the Fly" with PMS output turned "OFF". The "Output Option" should be set to the customers' specifications only after completing the hardware installation and system test sequence (refer to Chapter 4).

Non-Factory Direct Purchases

Systems which were NOT purchased factory direct have limited programming containing:

- A default system database (refer to Appendix C for default program parameters).

Programming is completed using an IBM compatible computer and the Installation & Maintenance Utility Software. The installer must program:

- The end-users telephone switch parameters
- Rate tables specific to the installation site.

NOTE: Rate tables may be remotely downloaded (factory to PC) by the distributor

– OR –

Purchased separately on diskette and then transferred to the Prophet system.

- The end-users Property Management System parameters (if applicable).

Programming Methods

Programming modifications may be performed:

- Using an IBM compatible PC and the Installation and Maintenance Utility Software.
- Using a programming terminal (refer to Chapter 3 - Direct Programming).

Programming modifications should be performed at the service facility prior to hardware installation at the customers site.

A PC, programming terminal or a modem link to the service facility can be used to complete the system test procedure at the installation site.

Once programming modifications are complete, power may be removed from the Prophet system without loss of the rate tables or customer database information.

Programming Using a PC

The Installation & Maintenance Utility software provides a menu-driven interface to the call accounting system which provides an easy to follow question and answer method to initial system programming and subsequent updating of the system database. The Installation & Maintenance Utility software also allows remote downloading of rate tables from the Data Center.

Customer Data-base & Pricing Tables

The customer database consists of site specific information such as telephone switch type, extension data, customer option criteria for reports, etc.

The rate tables allow the Prophet to price the call based on the number dialed. Pricing may be modified by criteria entered into the customer database.

Database Storage

The Installation & Maintenance Utility allows you to modify the default database in the Prophet standalone system (if connected to the PC), and also store the database on a diskette devoted to a single customer.

The Installation & Maintenance Utility software may be loaded on to the computer' s hard disk if available.

Distributors should maintain individual database diskettes (drive A or B) for each customer.

Drive selection for storage of the customer' s database and rate tables is made during the programming process with an on screen inquiry.

- Drive " A " should be selected for PC' s with hard disk systems.
- Drive " B " should be selected for PC' s without hard disks systems.

**Utility Program
Requirements**

Prophet Installation & Maintenance Utility software runs under MS-DOS, PC-DOS version 3.2 or above on an IBM or compatible personal computer equipped as follows:

- 640 KB (minimum) RAM
- One diskette drive (5-1/4" , 360 Kbyte or 3-1/2" , 720 Kbyte) and a hard disk drive.

- OR -

Two 3-1/2" , 720 K byte diskette drives.

Note: PCs with a hard disk will move through the menus more quickly.

- One RS-232C serial COM port

Optional:

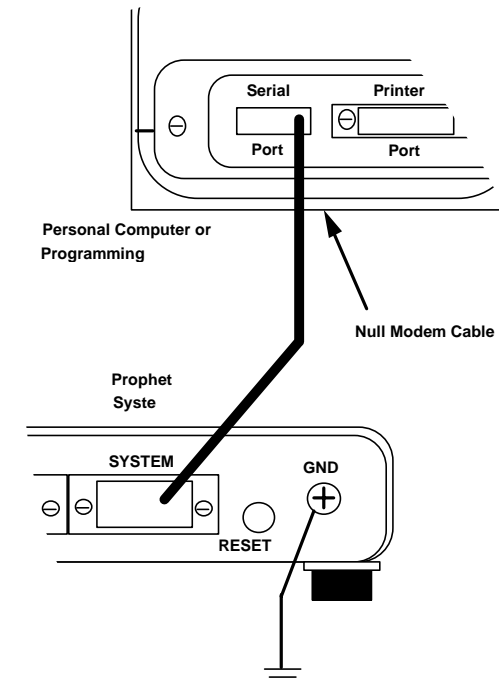
- PC - parallel printer
- An approved, asynchronous, internal or external Hayes™ compatible modem.

CAUTION: The modem is required to download rate tables from the factory database center or to perform remote maintenance on Prophet installations equipped with a service module and modem. If a modem is not available for the PC, ensure that the Prophet system is ordered with rate tables factory loaded or order a rate table diskette with the system.

Running DOS terminate and stay resident (TSR) background programs (menus, calendars, etc.) may interfere with the operation of the Installation & Maintenance Utility software.

PC to Prophet System Interface

The standard SYSTEM/PRINTER cable (supplied with the Prophet system) may be used (with either a gender changer or 25- to 9-pin adapter) to interface a personal computer with the the SYSTEM (J1) port of the Prophet system.



Connection for Programming
Figure 2-1

Hard Disk Procedures

Hard Disk Installation

Load the Prophet system Installation & Maintenance Utility diskette (diskette #1 if 5-1/4") into Drive A and type:

A:install <ENTER>

(Load diskette #2 when prompted, if 5-1/4")

Remove the master copy of the Installation & Maintenance Utility from Drive A.

Booting the Installation & Maintenance Utility

From the root directory (or the \PROPHETH directory):

Type: **PROPHETH** <ENTER> *this runs the Installation and Maintenance Utility.*

Floppy Disk Procedures

(3 1/2" Only)

Preparing a System Diskette – Dual Diskette Configurations

As shipped from the factory, the Prophet Installation & Maintenance Utility diskette does not contain a copy of the DOS `COMMAND.COM` file. Therefore, the software must be copied to another diskette that includes `COMMAND.COM`.

Turn on your PC and place a diskette with a copy of DOS in Drive A. Wait for the PC to "boot" from DOS and enter the date and time before proceeding to load the Installation & Maintenance Utility software.

Place a blank, unformatted, DSDD floppy diskette (720 Kbyte, 3-1/2") in Drive B of your PC. When the `A> "` prompt appears type the following command:

```
format b:/S <ENTER>
```

```
Insert new diskette for drive B:  
and strike ENTER when ready
```

When the diskette has been formatted the `Format another (Y/N)?` message appears. Type "N" and press `ENTER` to exit the disk format mode. This diskette should now contain a copy of the `COMMAND.COM` file which makes it a "bootable" system diskette.

Copying Utility Files to the System Diskette

Place the Prophet Installation & Maintenance Utility 3-1/2" diskette in Drive A. Type the following command:

```
transfer <ENTER>
```

When the file copying has been completed, remove the Prophet Installation & Maintenance Utility diskette from Drive A. Remove the system diskette with the Installation & Maintenance Utility files from Drive B and place it in Drive A.

Booting the Installation & Maintenance Utility System Diskette

Do a warm reset (press CTRL+ALT+DEL) of the computer so that it "boots" from Drive A.

Type: **PROPHETH** <ENTER> *this runs the installation utility*

Installation & Maintenance Utility Overview

Special Function Keys

With the Installation & Maintenance Utility software booted on the PC, a series of special function keys are defined in a "frame" appearing in the upper right hand corner of the screen. These special function keys allow instant access to certain facilities such as *help screens* and *remote dial capability*. Special functions include:

- F1** Provides help screens throughout the Installation & Maintenance Utility software. Help information corresponds to the current menu or field displayed on the screen.
- F2** May be used at any level within the program to initiate or terminate remote access.
- F3** Saves changes to the current database file and Prophet system then continues to the next screen.
- ESC** Aborts command in process and returns to the previous screen/function displayed **WITHOUT** saving changes.

Additional Function Keys

- Shift+Tab** Backs up one field.
- Tab or Enter** Stores current data and advances to the next field or screen.

Status Frame

The status frame is located in the lower right hand corner of the screen and provides current program operating status messages as follows:

Data Drive	Indicates the current disk drive that is being used to access the database (Drive A, B, C or D).
Modem Connect	Displayed as long as a modem link exists with the remote unit (refer to the F2 key description above).
Local Connect	Displayed for the duration of data transfer when used with a locally connected unit.
Data Transfer	Indicates the activity of the communications port during data transfer. A right arrow (→) indicates communication from PC to call accounting system. A left arrow (←) indicates communication from call accounting system to PC.
Install Procedure	Displayed while in the installation procedure. No communications to the call accounting system are made until the end of this procedure and the database created can be saved to disk for future download with or without sending it to the Prophet system.
Processing	Indicates procedures that may take longer than a few seconds.

Status Line

Located at the bottom of the screen provides field related help and parameter information.

Menu Structure

Installation

This routine creates a new customer database through a series of menus that prompt the installer for the database information required for successful system installation. It then transfers the new database to the call accounting system at the end of the sequence.

CAUTION: *Select **INSTALLATION** from the **MAIN MENU** ONLY if you intend to completely rewrite the customer database. This selection will erase the default database.*

Database Maintenance

This menu selection is used to maintain an existing database. Database Maintenance allows access to selected areas of the database for update and then immediately transfers the changes to disk and to the call accounting system. An error message will occur if the Prophet system is not connected and the database will be updated on the diskette **ONLY** (this method is used for future upload to the Prophet system).

Database Transfer

Copies/loads the system database to/from the Prophet system from/to the PC. This utility also allows the user to save and restore the database. Additionally, the Database Transfer utility provides the means to download rates from the Data Center to the PC and to transfer rates from the PC to the Prophet system.

NOTE: The database is automatically transferred to/from diskette and the Prophet system (if connected) when using Installation or Database Maintenance from the Main Menu.

Utilities

This selection provides advanced technical tools to the system technician. Utilities include:

<i>SMDR Diagnostics Mode</i>	Provides real-time analytical data on Accepted, Rejected or Dropped call records.
<i>Direct Mode</i>	Provides direct programming access to the Prophet system via modem or direct connection.
<i>Set System Date/Time</i>	Used to set the current date and time.
<i>Set Modem Parameters</i>	Allows the local modem parameters to be matched with the remote modem.
<i>Setup COM Ports</i>	Permits changes to the default IRQ and Address setting on COM ports.

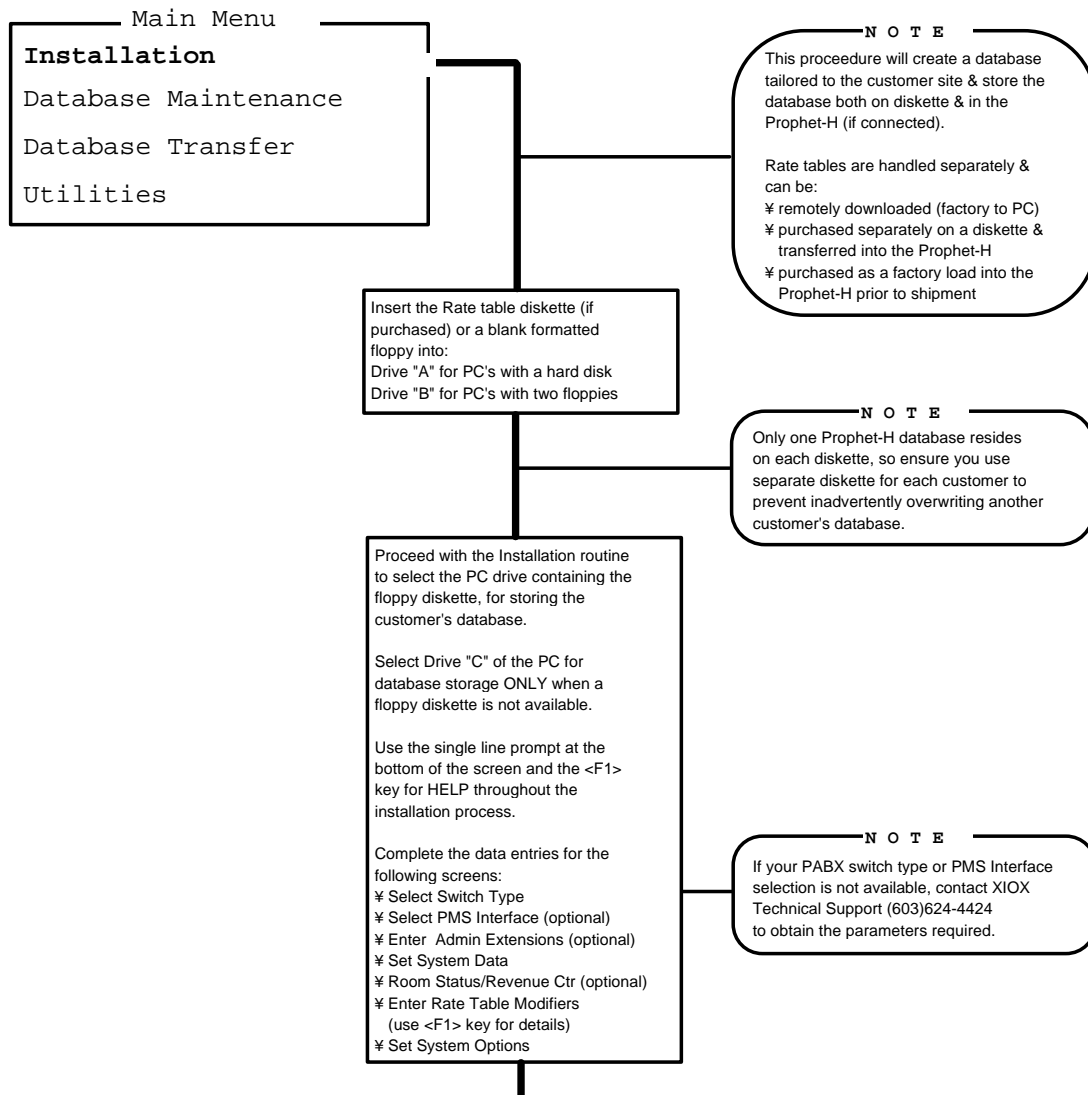
Installation Flowchart for Prophet-H

The INSTALLATION flowchart below demonstrates the process required to create a NEW customer database and load rate tables into the Prophet-H standalone unit, this procedure has already been performed for you and loaded into your system as a default database.

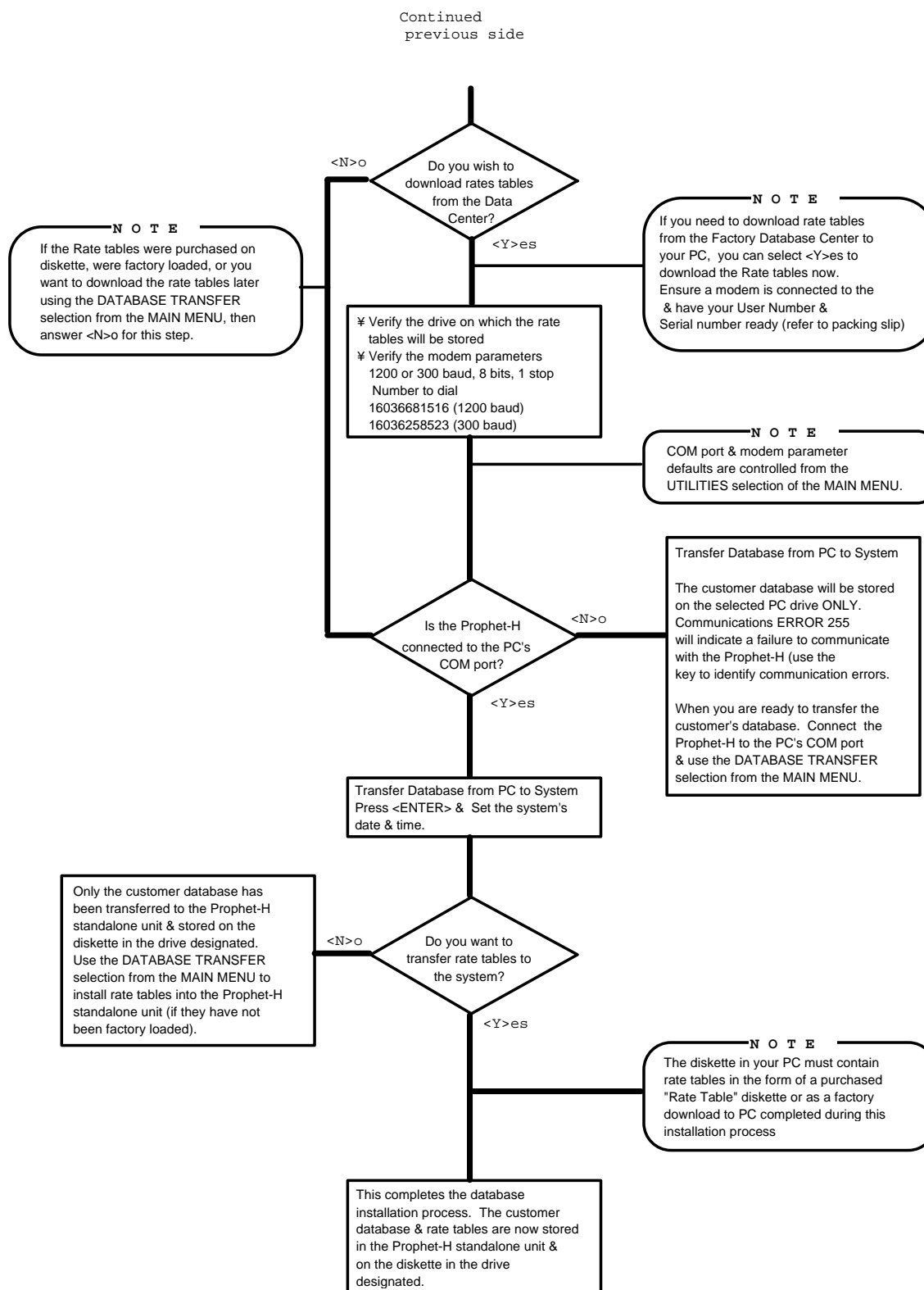
CAUTION: *Select INSTALLATION from the MAIN MENU ONLY if you intend to completely rewrite the customer database. This selection will erase the default database.*

Note: Modifications to the default database should be performed using the DATABASE MAINTENANCE flow chart to first load the default database and then make modifications as necessary.

Prophet-H (I&M Software) Installation Flowchart



Continued
next side



***Database
Maintenance
Flowchart for
Prophet-H***

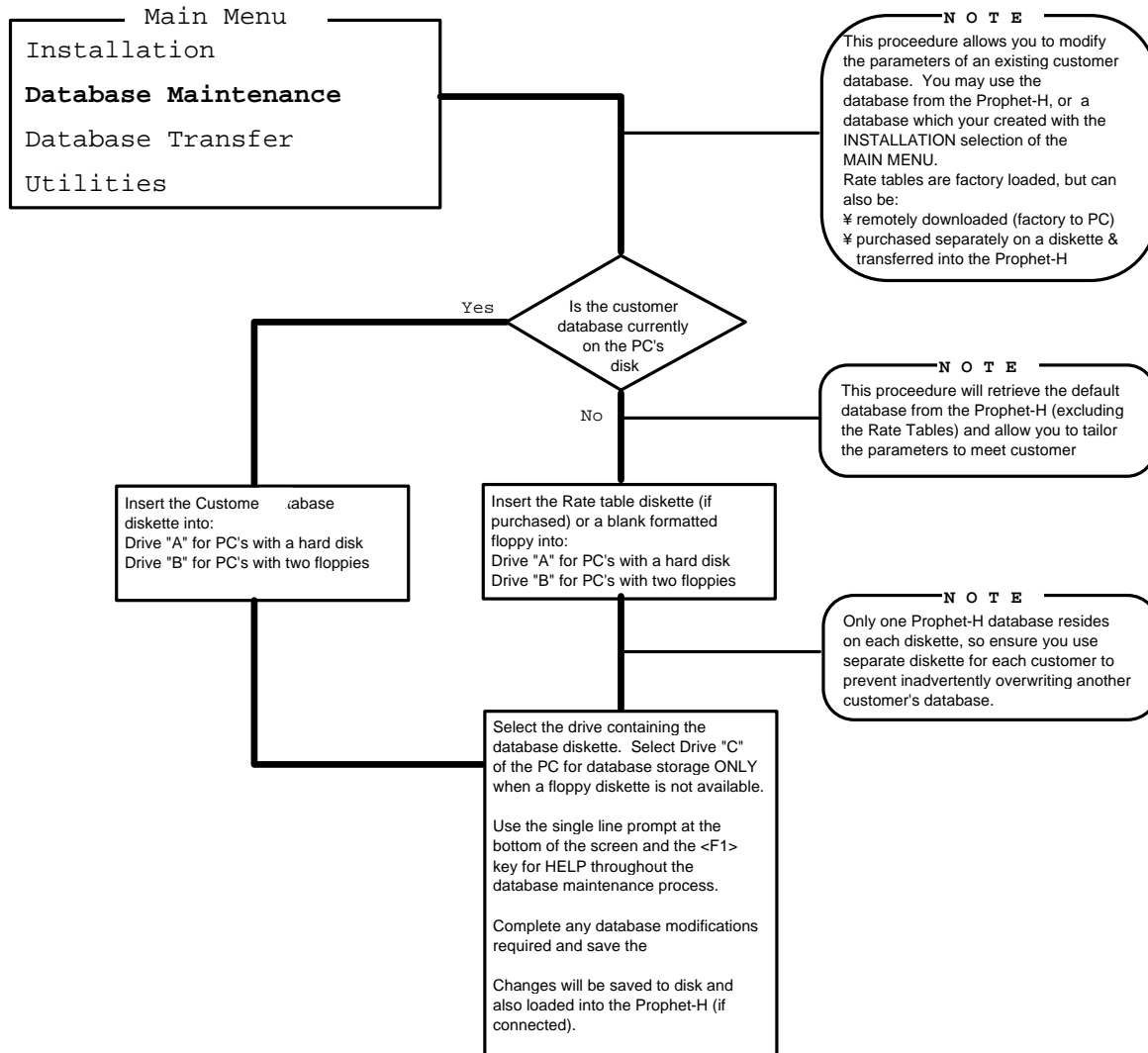
The following flowchart demonstrates the process required to modify either an existing customer database or the default database of the Prophet-H standalone unit.

Prophet-H systems purchased factory direct come with a standard default database. The customer' s telephone switch SMDR format, rate tables and property management system (PMS) are factory loaded.

Prophet-H systems which were NOT purchased factory direct require that the customer' s telephone switch SMDR format, rate tables, customer options and property management system (PMS) be loaded using the Installation and Maintenance Utility Software. Suggested programming procedure is to follow the DATABASE MAINTENANCE flow chart to first load the default database into the PC and then make modifications as necessary.

Prophet-H (I&M Software)

Database Maintenance Flowchart



Chapter 3

Direct Programming

Introduction

Prior to placing the Prophet call accounting system into service, the system must contain programming to include:

- System database identifying input/output, special pricing and auto reporting parameters (refer to Appendix C for the default program parameters).
- Telephone switch parameters matching the SMDR format of the call record expected. This selection determines whether the call record is accepted by the Prophet system and ensures proper interpretation of the call data.
- Rate tables tailored to price from the installation site to number dialed.
- Property Management System parameters (if applicable) matching the protocol required by the PMS to pass priced call record data in a format and with appropriate handshaking between Prophet and PMS.

Factory Direct Purchases

Systems purchased factory direct are pre-programmed for the installer prior to shipment and contain:

- A *default* system database.
- The end-users telephone switch parameters
- Rate tables specific to the installation site.

NOTE: Subsequent rate table updates may be remotely downloaded (factory to PC) by the distributor

– OR –

Purchased separately on diskette and then transferred to the Prophet system.

An IBM compatible computer and the Installation & Maintenance Utility Software are required to perform a rate table transfer (refer to Utility Program requirements page 3-5).

- The end-users Property Management System parameters (if applicable).

The installer must program:

- The administrative extensions identifying those extensions to be priced *at cost*.
- The Output Option to set print " On the Fly" , Store or output to PMS and backup printer.

NOTE: To facilitate site installation and system test, the "Output Option" is defaulted to print "On the Fly" with PMS output turned "OFF". The "Output Option" should be set to the customers' specifications only after completing the hardware installation and system test sequence (refer to Chapter 4).

Non-Factory Direct Purchases

Systems not purchased factory direct have limited programming containing:

- A default system database (refer to Appendix C for default program parameters).

Programming is completed using an IBM compatible computer and the Installation & Maintenance Utility Software. The installer must program:

- The end-users telephone switch parameters
- Rate tables specific to the installation site.

NOTE: Rate tables may be remotely downloaded (factory to PC) by the distributor

– OR –

Purchased separately on diskette and then transferred to the Prophet system using a PC.

- The end-users Property Management System parameters (if applicable).

Programming Methods

Programming modifications may be performed:

- Using an IBM compatible PC and the Installation and Maintenance Utility Software (refer to Chapter 2 - PC Programming).
- Using a programming terminal.

Programming modifications should be performed at the service facility prior to hardware installation at the customers site.

A PC, programming terminal or a modem link to the service facility can be used to complete the system test procedure at the installation site.

Once programming modifications are complete, power may be removed from the Prophet system without loss of the rate tables or customer database information.

Programming Using a Programming Terminal

A programming terminal can be used to modify the existing customer database, system operational parameters or pricing controls. Programming is performed using four basic menu's and observing the *Programming Guidelines* on page 3-6.

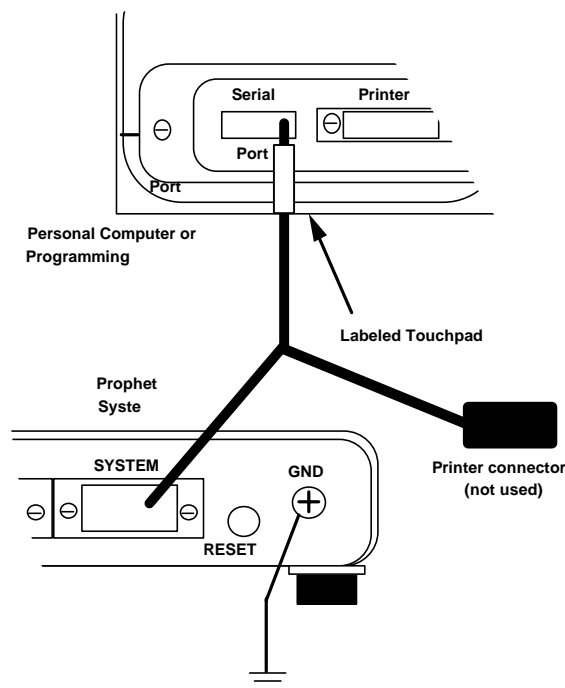
Customer Data- base & Pricing Tables

The customer database consists of site specific information such as telephone switch type, extension data, customer option criteria for reports, etc.

The rate tables allow the Prophet to price the call based on the number dialed or pricing may be modified by criteria entered into the customer database.

Terminal to Prophet System Interface

The standard touchpad/printer cable (shipped with the system) may be used to interface a programming terminal with the SYSTEM (J1) port of the Prophet system. A gender changer or 25- to 9-pin adapter may be required to connect the touchpad (9 pin) end to the programming terminal.



**Connection for Programming
Figure 3-1**

Programming Guidelines

The following guidelines should be observed when programming the Prophet system with a programming terminal.

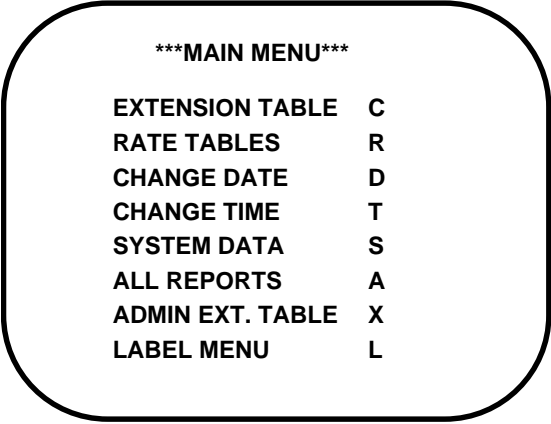
- Use the <ESC> key to " SIGN-ON" to the system or to return to the MAIN MENU.
- Set the programming terminal in UPPERCASE LOCK.
- Use <ESC> in the event of a miskey. **DO NOT** use <BACKSPACE>. Then follow the necessary programming sequence to return to the last entry and re-key the data.
- If you press a key that is not an acceptable entry, the system will automatically " SIGN-OFF" . Press <ESC> to " SIGN-ON" and follow the necessary programming sequence to return to the last entry and re-key the data.
- **DO NOT** use decimals or spaces when in the SYSTEM DATA MENU. **DO** use decimals when programming the RATE TABLES (follow the format indicated in each section).
- Watch for a " carriage return" on the terminal to indicate that the last data entry was accepted by the Prophet system.

Menu Structure

Main Menu

Four menus are available when using the programming terminal (Direct Mode):

The Main Menu is displayed by pressing the <ESC> key and provides the following selections:

A screenshot of the Main Menu screen, which is a rounded rectangle with a black border. At the top, it says '***MAIN MENU***'. Below that is a list of menu items, each followed by a letter in a column on the right.

MAIN MENU	
EXTENSION TABLE	C
RATE TABLES	R
CHANGE DATE	D
CHANGE TIME	T
SYSTEM DATA	S
ALL REPORTS	A
ADMIN EXT. TABLE	X
LABEL MENU	L

- **EXTENSION TABLE C**
Extensions will be learned by the Prophet system and automatically programmed into this table. There is generally no need to program this table unless you want to delete old or unused extensions. A maximum of 300 extensions can be learned in a Prophet-H3 , (the Prophet-H10 does not use an extension table). The extension learning DIP switch must be set as shown in Appendix C.
- **RATE TABLE R**
This selection is used to modify area code and exchange pricing, pricing controls of individual rate tables and system operation parameters.
- **CHANGE DATE D**
This selection is used to change the system date and day of the week.

- **CHANGE TIME T**
This selection is used to change the system time (use 24 hour format).
- **SYSTEM DATA S**
This selection accesses the SYSTEM DATA MENU to modify system operating parameters.
- **REPORT MENU A**
This selection accesses the REPORT MENU to obtain the system' s management reports.
- **ADMIN. EXT. TABLE X**
Use this selection to add or modify administrative extension numbers. Extensions listed in this table will be priced at cost only (without profit markup or surcharge). Telephone report and Revenue Center Billing commands are available to these extensions only.
- **LABEL MENU L**
This selection is used to display or modify the labels used for ROOM STATUS or REVENUE CENTER printouts.

System Data Menu

*****MAIN MENU*****

EXTENSION TABLE	C
RATE TABLES	R
CHANGE DATE	D
CHANGE TIME	T
SYSTEM DATA	<div style="border: 1px solid black; padding: 2px 5px;">S</div>
ALL REPORTS	A
ADMIN EXT. TABLE	X
LABEL MENU	L

The System Data Menu is displayed by selecting option "S" from the Main Menu. This menu displays the current value stored and provides the following selections:

SYSTEM DATA MENU		
PROPERTY CODE	P	DDI
GRACE PERIOD	G	0.5
OPR SURCHARGE	O	0.50
LENGTH OF FORM	L	02
PORT 2 BAUD	B	1200
AUTO REPORT TIME	T	23:59

- **PROPERTY CODE P DDI**
A three character alpha-numeric code identifying the property from which the reports were generated.
- **GRACE PERIOD G 0.5**
Use this selection to change the grace period of the system. Calls shorter than the grace period will not be stored or priced. This prevents guests from being charged for calls which do not meet this minimum duration. Grace periods can be set to a tenth of a minute accuracy. Additional pricing grace periods are available in each of the rate tables permitting differentiation between grace periods affecting 10 digit, 7 digit and International dialing.
- **OPR SURCHARGE O 0.50**
Use this selection to set the flat rate charge for all operator assisted and credit card calls made from guest room telephones. Use a value of 0.00 to drop these calls.
- **LENGTH OF FORM L 18**
Use this selection to set the number of lines between form feeds (perf to perf) at six lines per inch. 3 inch paper is 18 lines (3 inches times 6 lines per inch). Use submultiples of 66 lines (02, 03, 06, 11, 22 or 33) for 11 inch (standard) paper.

- PORT 2 BAUD B 1200

This selection sets the Prophet' s SMDR port baud rate to match the baud rate of the telephone switch SMDR. Baud rate settings are (0 = 0300, 1 = 0600, 2 = 1200).

NOTE: The reset button on the rear panel must be pressed to activate baud rate changes on either SMDR or SYSTEM ports. A warm reset can be initiated from the programming terminal by pressing <ESC> "81".

- AUTO REPORT TIME T 23:59

This selection sets the time for the daily audit report to occur. This report consists of a listing of all stored guest room calls followed by all administrative calls each with their respective totals and then a Daily Profit Report and an Administrative Call Report.

Call records are cleared after reporting, freeing memory for the following day' s call activity.

Auto report time is set using the 24 hour format. Setting a time of 00:00 disables auto reporting.

Report Menu

MAIN MENU

EXTENSION TABLE	C
RATE TABLES	R
CHANGE DATE	D
CHANGE TIME	T
SYSTEM DATA	S
ALL REPORTS	<div style="border: 1px solid black; padding: 2px;">A</div>
ADMIN EXT. TABLE	X
LABEL MENU	L

The Report Menu is displayed by selecting option "A" from the Main Menu and provides the following selections:

REPORT MENU	
DAILY PROFIT REPORT	1
MONTH TO DATE PROFIT	2
ADMINISTRATIVE CALL	3

- DAILY PROFIT REPORT 1

The Daily Profit Report provides a breakdown of all guest room call activity since the last report was generated. This report defaults to clearing the registers after completion of the report. It can be set to prompt for a clear by setting location 089 in Rate Table 1 to 0.01. Location 095 of rate table 1 determines whether this is available as a menu selection (*see appendix H*).

DAILY PROFIT REPORT					
01/20/91 23:59 TO 01/21/91 23:59					
TYPE OF CALL	# CALLS	MINUTES	COST	BILLED	PROFIT
INTERSTATE	31	168	67.20	168.00	100.80
INTRASTATE	8	57	21.66	39.28	17.62
INTERNATIONAL	3	21	87.20	193.77	106.57
LOCAL	18	56	8.40	13.50	5.10
FLAT RATE	56	211	15.60	36.40	20.80
OPERATOR ASSIST	8	96	0.00	12.40	12.40
TOTALS	124	609	200.06	463.35	263.29

Daily Profit Report
Figure 3-2

- MONTH-TO-DATE PROFIT REPORT 2

The Month-To-Date Profit Report provides a breakdown of all guest room call activity since the last time this report was cleared. After completion of this report you will be prompted with CLEAR REPORT ? (1=yes,2=no). Location 197 of rate table 1 determines whether this report will be run at month end (*see appendix H*).

MONTH-TO-DATE PROFIT REPORT					
01/03/91 23:59 TO 01/30/91 23:59					
TYPE OF CALL	# CALLS	MINUTES	COST	BILLED	PROFIT
INTERSTATE	682	3696	1478.40	3696.00	2217.60
INTRASTATE	176	1254	476.52	864.14	387.64
INTERNATIONAL	66	462	1918.40	4262.94	2344.54
LOCAL	396	1232	184.80	297.00	112.20
FLAT RATE	1232	4642	343.20	800.80	457.60
OPERATOR ASSIST	176	2112	0.00	272.80	272.80
TOTALS	2728	13398	4401.32	10193.70	5792.38

Month-To-Date Profit Report
Figure 3-3

- **ADMINISTRATIVE CALL REPORT 3**

The Administrative Call Report provides a breakdown of all administrative call activity since the last time this report was cleared. After completion of this report you will be prompted with CLEAR REPORT ? (1=yes,2=no).

ADMINISTRATIVE CALL REPORT			
01/21/90 23:59 TO 01/22/90 23:59			
<u>TYPE OF CALL</u>	<u># CALLS</u>	<u>MINUTES</u>	<u>COST</u>
INTERSTATE	6	29	11.89
INTRASTATE	15	63	20.16
INTERNATIONAL	0	0	0.00
LOCAL	37	183	0.00
FLAT RATE	12	49	0.00
OPERATOR ASSIST	1	7	0.00
TOTALS	71	331	32.05

Administrative Call Report
Figure 3-4

Label Menu

*****MAIN MENU*****

EXTENSION TABLE	C
RATE TABLES	R
CHANGE DATE	D
CHANGE TIME	T
SYSTEM DATA	S
ALL REPORTS	A
ADMIN EXT. TABLE	X
LABEL MENU	<input type="text" value="L"/>

The Label Menu is displayed by selecting option "L" from the Main Menu and provides the following selections:

*****LABEL MENU*****

DEFINE ROOM STATUS	1
DEFINE REVENUE CENTER	2
DISPLAY ROOM STATUS	3
DISPLAY REVENUE CENTER	4

- **DEFINE ROOM STATUS LABELS 1**
This selection is used to redefine up to ten default room status labels programmed into the Prophet system.
- **DEFINE REVENUE CENTER LABELS 2**
This selection is used to redefine up to ten default revenue center labels programmed into the Prophet system.
- **DISPLAY ROOM STATUS LABELS 3**
This selection is used to display the ten room status labels programmed into the Prophet system.
- **DISPLAY REVENUE CENTER LABELS 4**
This selection is used to display the ten revenue center labels programmed into the Prophet system.

Output Options

Overview

Sixteen output options are available which determine whether call records will be printed " On the Fly" , stored, sent to a PMS or sent to a backup printer. Option selections are as follows:

- 00 = Print both guest and administrative call reports " On the Fly" .
- 01 = Pass records immediately to a PMS (with applicable protocol).
- 02 = Pass management reports and call records not acknowledged by the PMS to a backup printer attached to the SMDR port.
- 04 = Store guest room call records.
- 08 = Store administrative call records.

The required output option can be determined by adding the individual option numbers together.

Example:

To store both guest room and administrative call records add,

- 04 - Store guest room calls.
- 08 - Store administrative calls.
- 12 - Combined options.

NOTE: Whenever administrative call records are stored, the nightly audit report should be turned on to print all call records and clear (see "Auto Report Time, page 3-28).

To store administrative call records, pass guest room calls to a PMS and pass non-acknowledged guest room calls to a backup printer, add:

- 01 - Pass calls to a PMS.
- 02 - Pass non-acknowledged call records to the backup printer.
- 08 - Store administrative calls.
- 11 - Combined options.

Setting the Output Option

To change the output option press <ESC> to SIGN-ON.

MAIN MENU

EXTENSION TABLE	C
RATE TABLES	R
CHANGE DATE	D
CHANGE TIME	T
SYSTEM DATA	S
ALL REPORTS	A
ADMIN EXT. TABLE	X
LABEL MENU	L

Hold the <SHIFT> and type "#"

H-03 V2.0 4113 OPTION 00 01/02/91 09:12 DAY OF WEEK 6

Type the two digit output option required for the customer' s installation.

Example:

"11" to pass guest calls to PMS and store administrative.

H-03 V2.0 4113 OPTION 11 01/02/91 09:12 DAY OF WEEK 6

Verify the date, time and day of the week (SUN=1, SAT=7).

Setting Date and Time

Setting the Date

To change the date, press <ESC> to SIGN-ON.

MAIN MENU

EXTENSION TABLE C
RATE TABLES R
CHANGE DATE D
CHANGE TIME T
SYSTEM DATA S
ALL REPORTS A
ADMIN EXT. TABLE X
LABEL MENU L

Select "D" from the MAIN MENU.

04/14/95 DAY OF WEEK 6
ENTER DATE MM/DD/YR

Enter the current date.

Example:

To change the date to 04/17/95 type "041795" without the "/" .

04/14/95 DAY OF WEEK 6
ENTER DATE MM/DD/YR
04/17/95
ENTER DAY OF WEEK (1-SUN,7=SAT)

Enter the day of the week (1=SUN, 7=SAT).

Example:

To change the day to Monday type "2" .

04/14/95 DAY OF WEEK 6
ENTER DATE MM/DD/YR
04/17/95
ENTER DAY OF WEEK (1-SUN,7=SAT)
2

Setting the Time

To change the time, press <ESC> to SIGN-ON.

MAIN MENU

EXTENSION TABLE	C
RATE TABLES	R
CHANGE DATE	D
CHANGE TIME	T
SYSTEM DATA	S
ALL REPORTS	A
ADMIN EXT. TABLE	X
LABEL MENU	L

Select "T" from the MAIN MENU.

09:12
ENTER TIME HH:MM

Enter the current time in 24 hour format.

Example:

To change the time to 2:30 PM type "1430" without the ":" .

09:12
ENTER TIME HH:MM
14:30

Administrative Extension Programming

Entering Administrative Extensions

Administrative extensions that you program into this table will be priced at cost only (without profit markup or surcharge). Telephone report and Revenue Center Billing commands are available to these extensions only.

To enter administrative extensions, press <**ESC**> to SIGN-ON.

MAIN MENU

EXTENSION TABLE	C
RATE TABLES	R
CHANGE DATE	D
CHANGE TIME	T
SYSTEM DATA	S
ALL REPORTS	A
ADMIN EXT. TABLE	X
LABEL MENU	L

Select "**X**" from the MAIN MENU.

ENTER TABLE POSITION AND EXTENSION NUMBER - OR Y FOR PRINT ALL

Press "**Y**" to print the table's contents and search for the next available location (location is zero filled) to enter an administrative extension number.

Press <**SPACE BAR**> to stop printing without leaving the table.

The table format is as follows:

ENTER TABLE POSITION AND EXTENSION NUMBER - OR Y FOR PRINT ALL			
000 0310	001 0311	002 0312	003 0313
004 0314	005 0000	006 0000	007 0000

POSITION NUMBER EXTENSION NUMBER FIRST AVAILABLE POSITION

The first location filled with zero' s is available for the next administrative extension number.

ENTER TABLE POSITION AND EXTENSION NUMBER - OR Y FOR PRINT ALL			
000 0310	001 0311	002 0312	003 0313
004 0314	005 0000	006 0000	007 0000
ENTER TABLE POSITION AND EXTENSION NUMBER - OR Y FOR PRINT ALL			

Enter the three digit position number followed by a four digit extension number.

Example:

To enter extension 315 into position 005 type "**0050315**".

ENTER TABLE POSITION AND EXTENSION NUMBER - OR Y FOR PRINT ALL			
000 0310	001 0311	002 0312	003 0313
004 0314	005 0000	006 0000	007 0000
ENTER TABLE POSITION AND EXTENSION NUMBER - OR Y FOR PRINT ALL			
005 0315			

NOTE: To remove an extension type "0000" into the applicable position.

Room Status / Revenue Center Programming

Label Menu

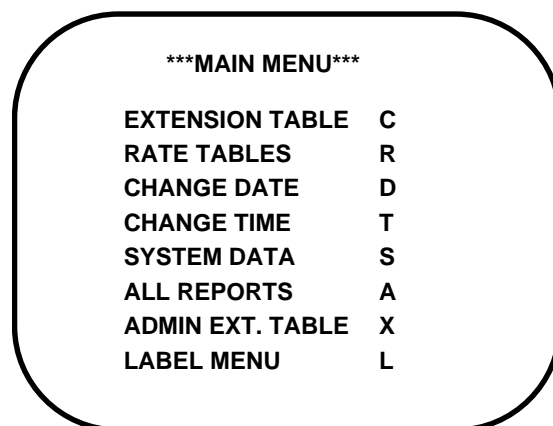
This feature is used for installations that do not have Property Management Systems but require a means of tracking room status or billing of purchases to the guest room.

The status of a room or revenue center charges can be passed through the telephone switch SMDR to the Prophet system in the form of a dialed number. The Prophet system translates the dialed number into the appropriate room status or revenue center and passes the information to a printer. Room status codes can be dialed from guest room or administrative telephone extensions. Revenue center codes are restricted to administrative telephone extensions only.

The telephone switch grace period should be set to its minimum value and the Room Status/Revenue Center access code (default = 600) must be passed through the telephone switch as a valid area code.

Defining Room Status Labels

To change the default Room Status labels, press <ESC> to SIGN-ON.



Select **"L"** from the MAIN MENU.

LABEL MENU	
DEFINE ROOM STATUS	1
DEFINE REVENUE CENTER	2
DISPLAY ROOM STATUS	3
DISPLAY REVENUE CENTER	4

Select **"3"** from the LABEL MENU to display the current Room Status Labels.

ROOM STATUS LABELS	
CODE	LABEL
0	ROOM CLEAN
1	ROOM DIRTY
2	ROOM VACANT
3	ROOM OCCUPIED
4	CLEANING ROOM
5	UNUSED
6	UNUSED
7	UNUSED
8	MAIN. REQUESTED
9	REQ. SUPERVISOR

There are ten codes (0 through 9) for which labels can be redefined.

Type **"1"** to define Room Status codes.

ENTER ROOM STATUS CODE(0-9) THEN ENTER
CODE

Enter the code number (0 through 9) to be redefined followed by up to 15 alpha-numeric characters for the label and then press **<ENTER>**.

Example:

To redefine code 5 as " Room Damaged"
type **"5ROOM DAMAGED<ENTER>"** .

ENTER ROOM STATUS CODE(0-9) THEN ENTER LABEL	
CODE	5 ROOM DAMAGED
CODE	

Enter the next code number and label or press **<ESC>** to end the session.

Defining Revenue Center Labels

To change the default Revenue Center labels, press **<ESC>** to SIGN-ON.

MAIN MENU	
EXTENSION TABLE	C
RATE TABLES	R
CHANGE DATE	D
CHANGE TIME	T
SYSTEM DATA	S
ALL REPORTS	A
ADMIN EXT. TABLE	X
LABEL MENU	L

Select **"L"** from the MAIN MENU.

LABEL MENU	
DEFINE ROOM STATUS	1
DEFINE REVENUE CENTER	2
DISPLAY ROOM STATUS	3
DISPLAY REVENUE CENTER	4

Select "4" from the LABEL MENU to display the current Revenue Center labels.

REVENUE CENTER	
CODE	LABEL
0	RESTAURANT #1
1	RESTAURANT #2
2	COFFEE SHOP
3	LOUNGE/BAR #1
4	LOUNGE/BAR #2
5	ROOM SERVICE
6	GIFT SHOP
7	LAUNDRY/VALET
8	LIMO/TAXI SERV.
9	UNUSED

There are ten codes (0 through 9) for which labels can be redefined.

Type "2" to define Revenue Center codes.

ENTER REVENUE CENTER CODE(0-9) THEN ENTER LABEL

CODE

Enter the code number (0 through 9) to be redefined followed by up to 15 alpha-numeric characters for the label and then press **<ENTER>**.

Example:

To redefine code 5 as " Dew Drop Inn"
type "5DEW DROP INN
<ENTER>" .

ENTER REVENUE CENTER CODE (0-9) THEN ENTER

CODE 5 DEW DROP INN
CODE

Enter the next code number and label or press <ENTER> to end the session.

System Data Menu Programming

To change the default System Data parameters, press <ESC> to SIGN-ON.

MAIN MENU

EXTENSION TABLE	C
RATE TABLES	R
CHANGE DATE	D
CHANGE TIME	T
SYSTEM DATA	S
ALL REPORTS	A
ADMIN EXT. TABLE	X
LABEL MENU	L

Select "S" from the MAIN MENU.

SYSTEM DATA MENU

PROPERTY CODE	P	SFI
GRACE PERIOD	G	0.5
OPR SURCHARGE	O	0.50
LENGTH OF FORM	L	66
PORT 2 BAUD	B	1200
AUTO REPORT TIME	T	23:59

Property Code

Select "P" from the SYSTEM DATA MENU.

ENTER PROPERTY CODE

Enter the three character alpha-numeric code identifying the installation site.

Example:

To redefine the property code as " DDI"
type "**DDI**" .

A rectangular box with rounded corners. The top half contains the text "ENTER PROPERTY CODE" in all caps. The bottom half contains a small rectangular input field with the text "DDI" inside.

Grace Period

Select "**G**" from the SYSTEM DATA MENU.

A rectangular box with rounded corners. The top half contains the text "ENTER PERIOD (0.0-9.9)" in all caps. The bottom half is empty.

Enter the two digit response without the decimal.

Example:

To redefine the grace period as " 0.7"
type "**07**" .

A rectangular box with rounded corners. The top half contains the text "ENTER PERIOD (0.0-9.9)" in all caps. The bottom half contains a small rectangular input field with the text "0.7" inside.

Operator Surcharge

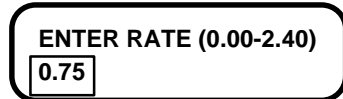
Select "**O**" from the SYSTEM DATA MENU.

A rectangular box with rounded corners. The top half contains the text "ENTER RATE (0.00-2.40)" in all caps. The bottom half is empty.

Enter the three digit response without the decimal.

Example:

To redefine the operator surcharge as " 0.75"
type "**075**".



ENTER RATE (0.00-2.40)
0.75

Length of Form

Select "**L**" from the SYSTEM DATA MENU.



ENTER FORM LENGTH IN LINES

Enter the two digit length in number of lines per page.

Example:

To redefine the length of form as 3 inches (6 lines per inch)
type "**18**".



ENTER FORM LENGTH IN LINES
18

NOTE: Standard 11 inch paper (66 lines) can be defined as a form length of 11 lines (6 sections), 22 lines (3 sections) or 33 lines (2 sections) to save paper.

SMDR Baud Rate

Select "**B**" from the SYSTEM DATA MENU.



ENTER BAUD RATE CODE (0-2)

Enter the single digit code representing the SMDR baud rate of the telephone switch (0 = 0300, 1 = 0600 and 2 = 1200).

Example:

To redefine the SMDR baud rate to " 0300"
type "**0**".

ENTER BAUD RATE CODE (0-2)

0

*NOTE: The reset button on the rear panel must be pressed to activate baud rate changes on either SMDR or SYSTEM ports. A warm reset can be initiated from the programming terminal by pressing <ESC> "**81**".*

Auto Report Time

Select "**T**" from the SYSTEM DATA MENU.

ENTER AUTOMATIC DAILY REPORT TIME HH:MM

Enter the four digit time to generate the nightly audit report without entering the ":".

Example:

To redefine the auto report time to " 23:00"
type "**2300**".

ENTER AUTOMATIC DAILY REPORT TIME HH:MM

23:00

*NOTE: To turn "OFF" the nightly auto report, enter "**0000**".*

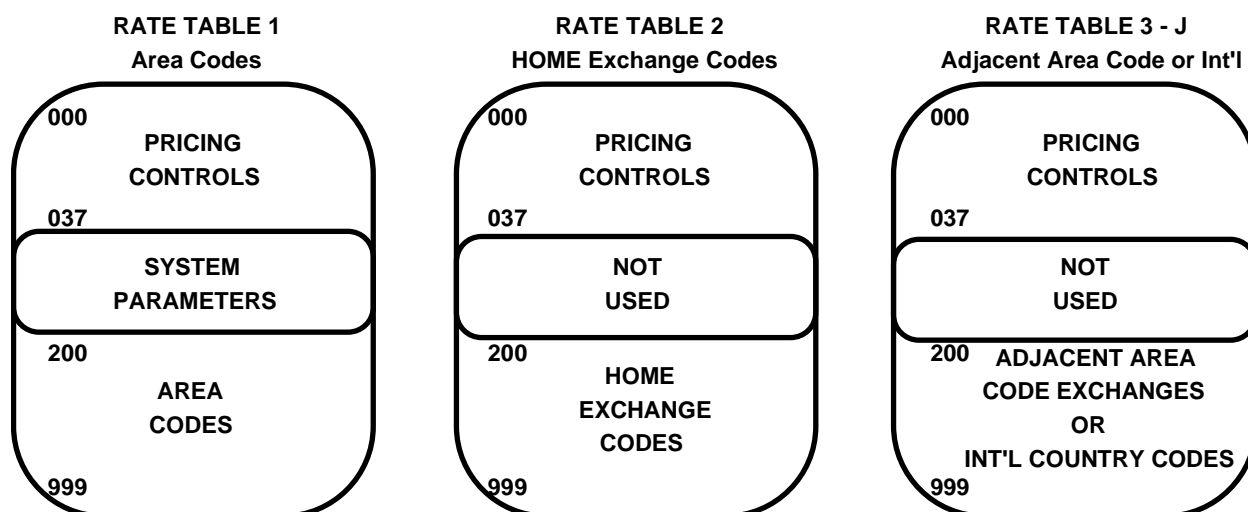
Rate Table Programming

Overview

Ten rate tables (1-9 and J) are available for pricing having the following functions:

- Area Code Table (Table 1)
Contains a listing of all area codes represented by positions 200 through 999 with pricing to the population center within each area code.
- Exchange Table for the HOME Area Code (Table 2)
Contains a listing of all exchanges within the HOME area code positions 200 through 999 with pricing to the specific exchange.
- Exchange Tables for Additional Area Codes (Tables 3 - J)
Optional tables, which provide pricing accuracy to the specific exchange for an area code adjacent to the HOME area code. One exchange table is required for each area code within the local dialing radius.
- International Table (Last table used in range 3 - J)
Contains pricing to population centers within a specific country code.

NOTE: Appendix H contains a quick reference of rate table controls.



Rate Table Structure
Figure 3-5

All rate tables (1 - 9 and J) use table positions 200 through 999 to represent the respective area code, exchange or country code and contain a value reflecting the first minute, daytime, weekday rate using time and distance charges.

Additional pricing controls specific to each rate table are contained in table positions 000 through 037.

System Parameters such as SMDR format, PMS format, etc. are contained in positions 030 through 199 of rate table 1 ONLY.

The Prophet system comes standard with the basic rate tables (1 and 2) which price to exchange accuracy within the HOME area code and to population centers in other area codes.

Systems containing *optional* " Additional Area Code" tables will price to the exchange within the additional area code.

NOTE: Additional Area Code tables are used to provide increased pricing accuracy to adjacent area codes (within local dialing radius to the installation site). These tables are highly recommended in heavily populated metropolitan areas.

Systems containing an *optional* " International" table will price to the country code dialed using time of day charges at the installation site.

Administrative extensions will be priced at cost. Guest room extensions are priced at cost plus a profit markup and surcharge.


Individual area codes, exchanges or country codes can be assigned to price by time and distance, one of two flat rate charges or dropped.

Entering Rate Table Values


Rate table values control pricing to area codes, home area code exchanges, adjacent area code exchanges or country codes dependent upon the table number selected.

The table format is as follows:

NPA OR NXX AND RATE - OR Y FOR PRINT							
000	1.59	001	1.00	002	0.66	003	0.55
004	0.99	005	0.60	006	0.60	007	0.01



POSITION
NUMBER



VALUE IN
"x.xx"
FORMAT

Values are changed by entering the three digit position number followed by the value in digit, decimal, digit, digit format.

Example:

To change the weekday surcharge of any rate table (position 005) to \$1.55, type **'0051.55'** without spaces.

Values may range from 0.00 to 2.40 in all positions.

Values in positions 200 through 999 indicate the price for the first minute, day time, weekday rate and may also be set to the following values.

- N NOS - used to flag area codes, exchanges or country codes not currently in use. Telephone numbers dialed referencing one of these positions will print the message:

THE RATE OF THE DIALED NUMBER IN THE FOLLOWING RECORD WAS NOT INITIALIZED

NOTE: This message alerts the end-user that a new area code or exchange has been dialed requiring rate table update. See location 032 in rate table 1 for message and serviceability options.

- F FLAT1 - guest room extensions will apply the flat rate value entered in position 006 and administrative extensions will apply the flat rate value entered in position 016.
- S FLAT2 - guest room extensions will apply the flat rate value entered in position 037 and administrative extensions will apply the flat rate value entered in position 016.
- D DROP - calls to these area codes, exchanges or country codes will be dropped.
- Tx Tx - pricing for this area code (Rate table 1 ONLY) will be redirected to the table referenced in x.

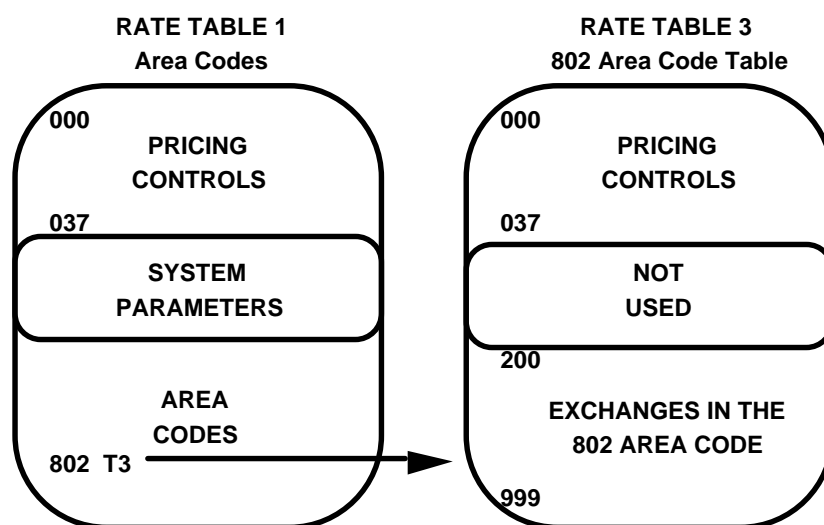


Figure 3-6
Area Code Redirection to an Exchange Table

Example:

If position " 802" contained the value " T3" , all calls to area code 802 would be redirected to rate table 3 and priced by the exchange within the 802 area code.

CAUTION: *Ensure you are familiar with the customers rate table assignments (listed on the packing slip) before attempting to change values. Refer to the topic "Identifying the Customer's Rate Table Assignments" if the packing slip is not available.*

Print a copy of positions 000 through 199 from rate table 1 and positions 000 through 037 of rate table 2 and any other active tables 3 through J before making changes to these tables.

Review "Programming Guidelines" on page 3-6 before attempting to program rate tables.

Printing Rate Table Values

To print rate table values, press <ESC> to SIGN-ON.

MAIN MENU

EXTENSION TABLE	C
RATE TABLES	R
CHANGE DATE	D
CHANGE TIME	T
SYSTEM DATA	S
ALL REPORTS	A
ADMIN EXT. TABLE	X
LABEL MENU	L

Select "**R**" from the MAIN MENU.

ENTER RATE TABLE NUMBER (1,2,3,4,5,6,7,8,9,J)

Enter the rate table number (1 through J) to be accessed.

Example:

To access rate table 1, type "**1**" WITHOUT pressing
<ENTER>.

ENTER RATE TABLE NUMBER (1,2,3,4,5,6,7,8,9,J)

1

Enter the three digit position number from which to start printing

– OR –

Press "Y" to print from position number 000.

Example:

To print table values beginning with position number 200, type "200Y" WITHOUT pressing <ENTER>.

ENTER RATE TABLE NUMBER (1,2,3,4,5,6,7,8,9,J)					
1					
NPA OR NXX AND RATE - OR Y FOR PRINT ALL					
200	200 NO\$	201 0.22	202 0.23	203 0.22	
	204 0.64	205 0.25	206 0.25	207 0.18	
NPA OR NXX AND RATE - OR Y FOR PRINT ALL					

Press <SPACE BAR> to stop printing without leaving the table.

– OR –

Press <ESC> to return to the MAIN MENU and repeat the steps above if you want to access a different rate table.

Identifying the Customer's Rate Table Assignments

Rate table 1 holds the key to the number of active rate tables.

If the customer has purchased International rates, position " 011" (the number dialed for International access) will indicate which table has been programmed with International pricing.

Read the value of position " 011 " by pressing **ESC>** to SIGN-ON.

MAIN MENU

EXTENSION TABLE	C
RATE TABLES	R
CHANGE DATE	D
CHANGE TIME	T
SYSTEM DATA	S
ALL REPORTS	A
ADMIN EXT. TABLE	X
LABEL MENU	L

Select **"R"** from the MAIN MENU.

ENTER RATE TABLE NUMBER (1,2,3,4,5,6,7,8,9,J)

Select **"1"** to access rate table 1.

ENTER RATE TABLE NUMBER (1,2,3,4,5,6,7,8,9,J)

1

Type **"011Y"** WITHOUT pressing <ENTER> to print values beginning with position " 011 " .

ENTER RATE TABLE NUMBER (1,2,3,4,5,6,7,8,9,J)

1

NPA OR NXX AND RATE - OR Y FOR PRINT

011	011 T5	012 0.23	013 0.43	014 0.02
	015 0.91	016 0.46	017 0.08	018 0.17

NPA OR NXX AND RATE - OR Y FOR PRINT ALL

Press <**SPACE BAR**> to stop printing without leaving the table.

The International table is always the last table assigned.

Example:

A value of " T3" in rate table 1, position " 011" indicates that the system is programmed with the standard tables (1 and 2) plus International in rate table 3.

A value of " T5" in rate table 1, position " 011" indicates that the system is programmed with the standard tables (1 and 2), International rates in table 5 and two additional area code tables 3 and 4.

Adj acent code tables may be present with or without International pricing.

To check for adj acent area code tables, type in the position number representing an adj acent area code followed by " Y" .

Example:

If area code " 802" is an adj acent area code, type **802Y** WITHOUT pressing <ENTER> to print values beginning with position " 802" .

ENTER RATE TABLE NUMBER (1,2,3,4,5,6,7,8,9,J)				
1				
NPA OR NXX AND RATE - OR Y FOR PRINT				
802	802 T3	803 0.24	804 0.24	805 0.25
	806 0.25	807 0.59	808 0.33	809 1.48
NPA OR NXX AND RATE - OR Y FOR PRINT ALL				

Press <**SPACE BAR**> to stop printing without leaving the table.

A value of " T3" in rate table 1, position " 802" indicates that rate table 3 is programmed with exchange pricing for the 802 area code.

Check for additional tables using the method above.

Setting the Pricing Controls for each Table

Rates for each area code, exchange or country code are loaded into the Prophet system by using an IBM compatible PC and the Installation and Maintenance Utility software (refer to Chapter 2 - PC Programming).

Weekday and weekend multipliers (day, evening, night and overtime) are part of the rate table download.

Adjustments to pricing involves setting the cost controls for administrative extensions and the profit markup, surcharge and flat rates for guest room extensions.

Table pricing structure:

Rate table 1 Area codes outside the HOME area code.

Rate table 2 Exchanges within the HOME area code.

Rate tables 3-J *Optional* additional (adjacent) area code tables providing pricing by exchange.

– OR –

International table (last table used)

Setting Cost Controls

To adjust the COST controls in a table, follow the rate table programming procedures described in *Entering Rate Table Values page 3-31*, and set the following locations for each table.

010 Tax multiplier - put the Federal tax plus State tax (if applicable).

016 Flat rate cost (actual cost) applied to administrative extensions when dialing any flat rated number. This value will be subtracted from the flat rate profit shown on both *Daily* and *Monthly Profit Reports*.

Setting Profit Controls

To adjust the PROFIT controls in a table, follow the rate table programming procedures described in *Entering Rate Table Values page 3-31*, and set the following locations for each table. Default parameters are listed in Appendix C.

- 005 Weekday surcharge - put the minimum profit to be assessed a guest room (weekdays).
- 006 First flat rate - this flat rate can be applied to guest room phones when calling directory assistance, etc.
To direct an area code or exchange to apply this rate, enter the value "F" in the position number of each rate table to which it applies.

Example:

To use flat rate at a value of \$.50 for directory assistance calls, type "0060.50"

006 0.50

Then type "555F"

555 FLAT1

- 008 Local flat rate (Rate table 2 ONLY) - if you have 1+ dialing WITHIN your HOME area code, put the flat rate charge for guest rooms dialing local calls (without 1+) in this location.

Toll calls to 1+ seven digit numbers are not affected by this entry.

NOTE: If your HOME area code does not support 1+ seven digit dialing for toll calls, put "0.00" in this location.

- 009 Profit multiplier - this is the percentage of profit markup applied to guest room extensions and will be added to the cost of the call.
- 025 Weekend surcharge - put the minimum profit to be assessed a guest room (weekends).
- 036 Additional surcharge - to apply a surcharge greater than \$2.40, enter the amount to be added to the weekday (005) and weekend (025) surcharges.
- 037 Second flat rate - this flat rate can be applied to guest room phones when calling directory assistance, etc. To direct an area code or exchange to apply this rate, enter the value "S" in the position number of each rate table to which it applies.

Example:

To use flat rate at a value of \$.25 for area code 800 calls, type "**0370.25**"

037 0.25

Then type "**800S**"

800 FLAT2

Call Pricing Sequence

Appendix I provides a step by step call pricing worksheet. Ensure that the pricing controls used are derived from the applicable rate table (i.e. Rate table 1 for area codes, table 2 for exchanges within the home area code and tables 3 through J for exchanges in either adjacent area codes or International rates).

System Parameters

A complete listing of the system parameters applying to SMDR, PMS, etc. is provided in Appendix H.

Chapter 4

Hardware Installation

Introduction

The Prophet call accounting system is pre-programmed at the factory prior to shipment, additional modifications may be required to meet customer requirements. Units not purchased factory direct require the installation of rate tables, telephone SMDR and Property Management System formats. Modifications to the default customer database should be programmed at the installer's facility prior to hardware installation at the customer site. Refer to Chapter 2 - PC Programming or Chapter 3 - Direct Programming to perform database modifications (if needed) before proceeding with the hardware installation.

The first phase of the hardware installation procedure involves connecting the Prophet system to the telephone switch and to a programming terminal to perform the system test procedure. The final end-users configuration is then completed and the system placed into service.

RS-232 Interface

Prophet System Serial Ports

The Prophet system has two RS-232C serial ports available for peripheral interface.

- The SYSTEM (J1) port is a 9 pin male used for system programming, remote connections and call record reporting to a serial printer or Property Management System (PMS). Prophet system programming is performed through the SYSTEM port with the aid of a programming terminal or a personal computer using the Installation and Maintenance Utility Software.

- The SMDR (J2) port is a 9 pin male, which receives SMDR call data from the telephone system for processing. Incoming call records are displayed by a flashing YELLOW SMDR LED on the front panel of the Prophet system. The SMDR port is also used to provide backup call reporting for PMS configurations. Call records which have not been accepted by the PMS due to PMS failure, routine maintenance or busy status are sent out the SMDR port to a serial printer.

NOTE: Refer to Appendix D for RS-232 pin functions and cable limitations.

Physical Installation

Equipment Required for Installation

Basic tool requirements for on site installation include:

- A lap top PC with the Installation & Maintenance Utility software and the customer database diskette.

- OR -

- A programming terminal.
- Pin extractor (provided with the system).
- Flat blade & Phillip screw drivers.
- Multimeter.
- Prophet-H Installation & Maintenance Manual.
- Prophet System, cables and components for system test and final configuration.

Optional (Highly Recommended):

- An approved, 1200/300 baud asynchronous, internal or external Hayes™ compatible modem and modem cable (to enable remote technical assistance if needed).
- RS-232C breakout box to identify SMDR data & control leads on the telephone switch (if not already known) an aid in troubleshooting data lines (refer to Appendix D for application information).
- An adapter (if required) to connect the 25 pin end of the SYSTEM / PRINTER cable to the programming terminal or PC.

***Hardware Placement
& Handling***

The Prophet system can be installed using either a PC with the Installation & Maintenance Utility Software or a programming terminal. Select the procedure below that applies to the equipment that you are using.

The following procedure applies to hardware installation at the user site. Complete these steps only after the *Database Installation* procedure has been performed.

- Remove the Prophet system and components from the box and ensure that there is no damage to these components.
- The Prophet system is designed for either table top or wall mount installation. If wall mounting is preferred, refer to *Wall Mounting* later in this chapter.

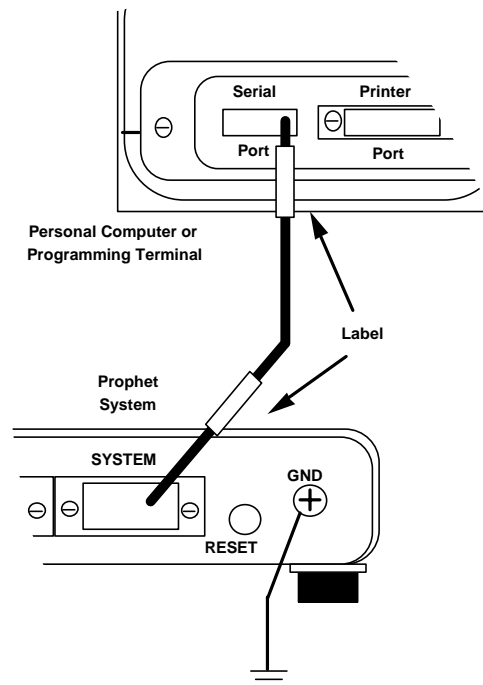
- Position the Prophet system on any flat surface near the final installation position. The Prophet system, should be positioned close to the printer whenever direct cable connections between the Prophet' s SYSTEM port and printer / PC will be made.

CAUTION: To assure reliable operation, position the Prophet system away from power transformers or high EMF (Electro-Magnetic Force) environments. Ensure the system is connected to a light-loaded or dedicated power circuit. DO NOT plug the Prophet system into a circuit which is shared with other high current devices such as motors or heating elements, or into a circuit which may be subject to faults or other power interruptions.

Ensure all ESD (Electro-Static Discharge) handling procedures are observed to prevent damage to electronic equipment.

Connecting for System Test

The following procedure prepares the Prophet H standalone for system test.



Connection for System Test
Figure 4-1

- Connect the PC or programming terminal to the SYSTEM port of the Prophet system using the PRINTER/SYSTEM cable. Observing the labeling next to each connector, insert the SYSTEM end of the cable into the SYSTEM port of the Prophet. Insert the PRINTER end of the cable into the PC COM port (an adapter may be required to complete this connection).

NOTE: *DO NOT* connect the SMDR from the telephone switch until directed to do so later in this procedure.

- Apply power to the PC or programming terminal leaving the Prophet system unplugged.

Preparing the PC for System Test

Booting the Installation and Maintenance Utility Software

This procedure will boot the Installation and Maintenance Utility Software and prepare it to perform the system test sequence on the Prophet standalone system using the DIRECT MODE method of programming.

CAUTION: *Skip this sequence and continue with the next topic, Direct Mode Standalone Preparation (PC or Programming Terminal) if you are using a PROGRAMMING TERMINAL to perform the test.*

NOTE: *The assumption is made that all steps have been completed under the topic **Physical Installation** up to this point.*

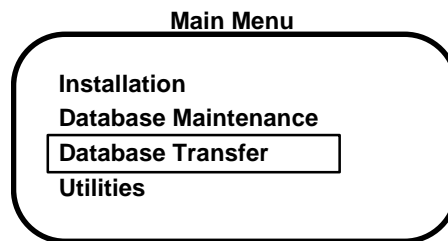
- If the Installation and Maintenance Utility Software is not already loaded on the PC, follow the directions in Chapter 2 - PC Programming, then return to this procedure.
- Prepare a formatted diskette to be used for the customer' s database storage and place the diskette in drive A (for PC' s with hard drives) or drive B (for PC' s with dual 3 1/2" floppy drives).
- From the " C:" prompt (" A:" prompt for dual floppy systems) on the PC, type **PROPHETH** and press <ENTER>.

C: PROPHETH

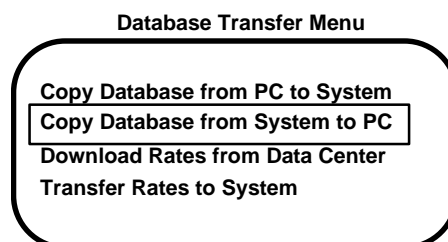
- Connect the ground lug on the back of the Prophet system to earth ground.
- Plug the connector from the external power transformer into the PWR (J3) jack on the rear of the Prophet system, then plug the external transformer into a nearby 120Vac outlet.
- Verify that the Green (Power) LED is lit.

NOTE: The Red (Alarm) LED and audible alarm may come on if the programming terminal is OFFLINE. If connected to a PC, the alarm condition should stop once the Installation & Maintenance Software is active.

- Using the arrow keys, select DATABASE TRANSFER and press <ENTER>.



- Select COPY DATABASE FROM SYSTEM TO PC and press <ENTER>.



- Place a formatted diskette into either drive A or B.
Answer "Y" or "N" as necessary to direct database storage to drive A or B and press <ENTER>.

IMPORTANT:
Drive A is currently

Is the drive..... correct? (Y/N)

- Press <ENTER> to save and continue.
- Press <ESC> to return to the MAIN MENU.

Main Menu

Installation
Database Maintenance
Database Transfer
Utilities

- Select UTILITIES and press <ENTER>.

Main Menu

Installation
Database Maintenance
Database Transfer
Utilities

- Select DIRECT MODE and press <ENTER><ENTER>.

Utilities Menu

SMDR Diagnostics Mode
Direct Mode
Remote Maintenance
Set System Date/Time
Set Modem Parameters

After a few seconds, the standalone system' s MAIN MENU should appear as follows:

MAIN MENU	
EXTENSION TABLE	C
RATE TABLES	R
CHANGE DATE	D
CHANGE TIME	T
SYSTEM DATA	S
ALL REPORTS	A
ADMIN EXT. TABLE	X
LABEL MENU	L

You are now communicating directly with the Prophet system. Programming changes made to the Prophet system will **NOT** be stored to the customer' s database diskette.

*Direct Mode
Standalone
Preparation (PC or
Programming
Terminal)*

This procedure prepares the Prophet standalone for system test. The procedure will be performed with either a PC using the Installation and Maintenance Utility Software or a programming terminal.

*NOTE: The assumption is made that all steps have been completed under the topic **Physical Installation** up to this point.*

CAUTION: While in DIRECT MODE, <BACKSPACE> does not apply. If you enter an incorrect keystroke, or do not get a response to your keystroke, press <ESC> immediately to return to the Prophet standalone system's MAIN MENU.

- Press <ESC> to *SIGN-ON* and display the MAIN MENU.

MAIN MENU

EXTENSION TABLE	C
RATE TABLES	R
CHANGE DATE	D
CHANGE TIME	T
SYSTEM DATA	S
ALL REPORTS	A
ADMIN EXT. TABLE	X
LABEL MENU	L

- Hold the <SHIFT> key and press "#" to display:

H-03 V1.0.0 4113 OPTION 15 01/02/91 09:12 DAY OF WEEK 6

- Record the current OPTION number for future reference.
- Type "00" to change the output option to print " On the Fly" . Verify that the option changes to 00:

H-03 V1.0.0 4113 OPTION 01/02/91 09:12 DAY OF WEEK 6

- Press "S" to display:

SYSTEM DATA MENU

PROPERTY CODE	P	DDI
GRACE PERIOD	G	0.5
OPR SURCHARGE	O	0.50
LENGTH OF FORM	L	66
PORT 2 BAUD	B	1200
AUTO REPORT TIME	T	23:59

- Record the current LENGTH OF FORM number for future reference.
- Press "**L**" to display:

ENTER FORM LENGTH IN LINES

- Press "**02**" to set the form length to 2 lines for test purposes.
- Press "**S**" to verify the change in LENGTH OF FORM to 02 lines:

SYSTEM DATA MENU

PROPERTY CODE	P	DDI
GRACE PERIOD	G	0.5
OPR SURCHARGE	O	0.50
LENGTH OF FORM	L	02
PORT 2 BAUD	B	1200
AUTO REPORT TIME	T	23:59

- Verify that the PORT 2 BAUD rate is set to match the SMDR baud rate from the telephone switch (refer to Chapter 3 - Direct Programming if a baud rate correction is necessary).
- Press <**ESC**> to return to the MAIN MENU.

MAIN MENU

EXTENSION TABLE	C
RATE TABLES	R
CHANGE DATE	D
CHANGE TIME	T
SYSTEM DATA	S
ALL REPORTS	A
ADMIN EXT. TABLE	X
LABEL MENU	L

- Press "**R**" to display:

ENTER RATE TABLE NUMBER (1, 2, 3, 4, 5, 6, 7, 8, 9, J

- Press "**1**" to enter rate table 1 and display:

NPA OR NXX AND RATE - OR Y FOR PRINT ALL

CAUTION: For the following steps, key in the digits exactly as displayed. <BACKSPACE> does not apply. If you enter an incorrect keystroke, or do not get a response to your keystroke, press <ESC> immediately to return to the Prophet standalone system's MAIN MENU.

NOTE: The first three digits represent the table position number or NPA (area code) and the remaining digits represent the dollar amount charge, multiplier or a program code. Type the location & code without spaces, a space is automatically inserted by the system.

- Type "**0810.01**" to turn on diagnostics for accepted records and display:

081 0.01

- Type "**0820.01**" to turn on diagnostics for rejected records and display:

082 0.01

- Type "**0830.01**" to turn on diagnostics for dropped records and display:

083 0.01

- Press <**ESC**> to return to the MAIN MENU.

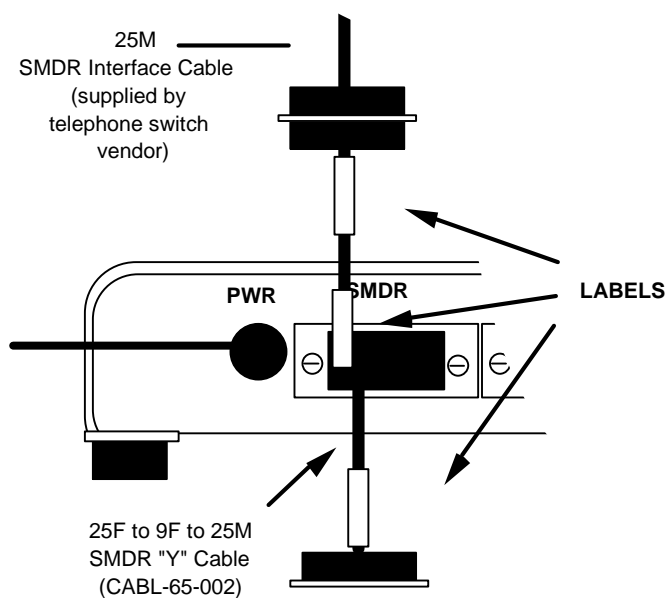
MAIN MENU

EXTENSION TABLE	C
RATE TABLES	R
CHANGE DATE	D
CHANGE TIME	T
SYSTEM DATA	S
ALL REPORTS	A
ADMIN EXT. TABLE	X
LABEL MENU	L

*Direct Mode Test
Sequence (PC or
Programming
Terminal)*

This procedure will verify acceptance of the SMDR call records from the telephone switch.

*NOTE: The assumption is made that all steps have been completed under the topic **Physical Installation** up to this point.*



Connection to the Telephone Switch
Figure 4-2

- Connect the SMDR / Switch / Printer " Y " cable between the cable coming from the telephone switch and the Prophet system' s SMDR port. Leave the Printer connector end disconnected. Refer to SMDR cabling diagrams in Appendix E.
- Make a 1 minute test call and watch for the YELLOW SMDR LED on the front panel to flash after placing the phone ON HOOK.

SMDR Diagnostics**Format**

Call records will be displayed in a diagnostic format showing the status of the record, (accepted, rejected or dropped) and how the record was stored and processed:

OUTPUT FORMAT

```
A 011617330611000113CCC914045553273C
```

```
L 1733 04/01 00 9 14045553273 06:11:02 11:18
```

```
0380 SFI 01/16 1733 06:11 011.3 $ 1.66 9 14045553273
```

Stored data

SMDR from switch

Priced call report

KEY TO OUTPUT FORMAT

```
S MMDD eeee hhmmss dddd aaaa nnnnnnnnnnn
```

```
A 0116 1733 061100 0113 CCC9 14045553273
```

Stored data format

Stored data

S	=	A for accepted record R for rejected record D for dropped record
MMDD	=	month/day
eeee	=	extension number
hhmmss	=	hour/minute/seconds (24 hour format)
dddd	=	duration (tenths of minutes)
aaaa	=	access code
nnn..n	=	dialed number

- Match the " SMDR from switch" row ensuring that the data is stored in the proper locations in the " Stored data" row.
- Verify accuracy of the data in the " Priced call report" row.

**Restoring
(Pre-Test)
Programming**

This procedure restores the original programming of the Prophet standalone. The procedure will be performed with either a PC using the Installation and Maintenance Utility Software or a programming terminal.

*NOTE: The assumption is made that all steps have been completed under the topic **Physical Installation** up to this point.*

- Press <ESC> to *SIGN-ON* and display the MAIN MENU.

MAIN MENU		
EXTENSION TABLE	C	
RATE TABLES	R	
CHANGE DATE	D	
CHANGE TIME	T	
SYSTEM DATA	S	
ALL REPORTS	A	
ADMIN EXT. TABLE	X	
LABEL MENU	L	

- Press "S" to display:

SYSTEM DATA MENU			
PROPERTY CODE	P	SFI	
GRACE PERIOD	G	0.5	
OPR SURCHARGE	O	0.50	
LENGTH OF FORM	L	02	
PORT 2 BAUD	B	1200	
AUTO REPORT TIME	T	23:59	

- Press "**L**" to display:

ENTER FORM LENGTH IN LINES

- Enter the two digit value representing the original (pre-test) form length (6 linefeeds per inch).
- Press "**S**" to verify the change in LENGTH OF FORM to the original value:

SYSTEM DATA MENU

PROPERTY CODE	P	SFI
GRACE PERIOD	G	0.5
OPR SURCHARGE	O	0.50
LENGTH OF FORM	L	02
PORT 2 BAUD	B	1200
AUTO REPORT TIME	T	23:59

- Hold the <**SHIFT**> key and press "#" to display:

H-03 V1.0.0 4113 OPTION 00 01/02/91 09:12 DAY OF WEEK 6

- Enter the original (pre-test) two digit output option. Verify that the option changes:

H-03 V1.0.0 4113 OPTION 15 01/02/91 09:12 DAY OF WEEK 6

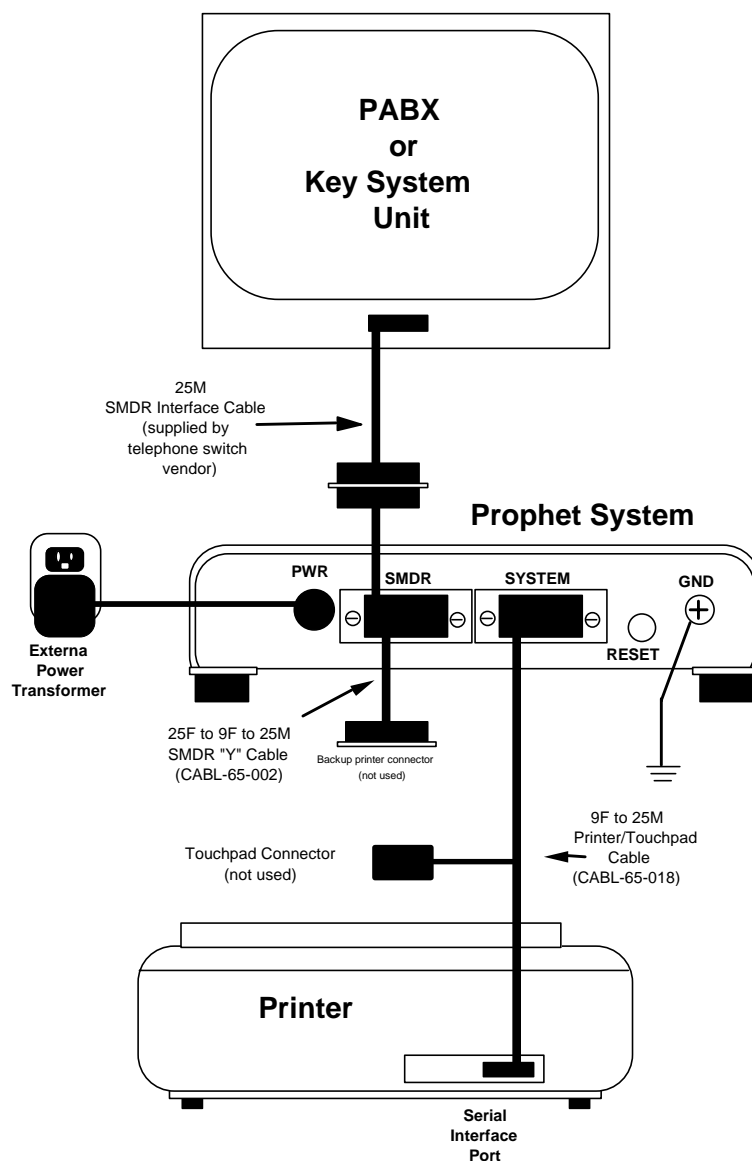
- System test procedure is now complete.

Final System Configuration

The following configuration setup procedures assume that the system test sequence has been completed and that the SMDR cable has been installed and call records are being accepted by the Prophet system. Choose the proper application diagram to match the customers installation configuration and follow the applicable procedure to complete final setup and test.

*NOTE: The assumption is made that all steps have been completed under the topic **Physical Installation** up to this point.*

Configuring for Telephone Commands



Configuration for Telephone Commands

Figure 4-3

- Verify that the Prophet's SYSTEM port and printer baud rate, data bits, parity and stop bits match. Default settings and dip switch adjustments for the Prophet system are listed in Appendix C. Refer to the printer manual for dip switch settings of the printer in use.

- Refer to the labels and connect the SYSTEM / PRINTER cable between the SYSTEM port of the Prophet system and the serial port on the PRINTER.
- Tighten the connector screws on all cables.
- Press the reset button on the back panel of the Prophet system and verify a clear message similar to the following:

WARM RESET

H-03 V1.0.0 4113 OPTION 00 01/02/91 09:12 DAY OF WEEK 6

This verifies proper communications between Prophet system & printer.

- Using an administrative extension, dial the number for an outside line followed by the Prophet system access code (default = 200) and the command for a Month-to-Date Profit report (without clear).

Example: **9200422**

wait ten seconds then hang up.

MONTH TO DATE PROFIT					
01/02/91 10:05 TO 01/02/91 10:25					
TYPE OF CALL	#CALLS	MINUTES	COST	BILLED	PROFIT
INTERSTATE	5	15	.90	1.22	.32
INTRASTATE	2	4	.32	.43	.11
INTERNATIONAL	0	0	0	0	0
LOCAL	0	0	0	0	0
FLAT RATE	2	6	1.08	3.00	1.92
OPERATOR ASSIST	0	0	0	0	0
TOTALS	9	25	2.30	4.65	2.35

CLEAR REPORT ?(1=YES, 2=NO)

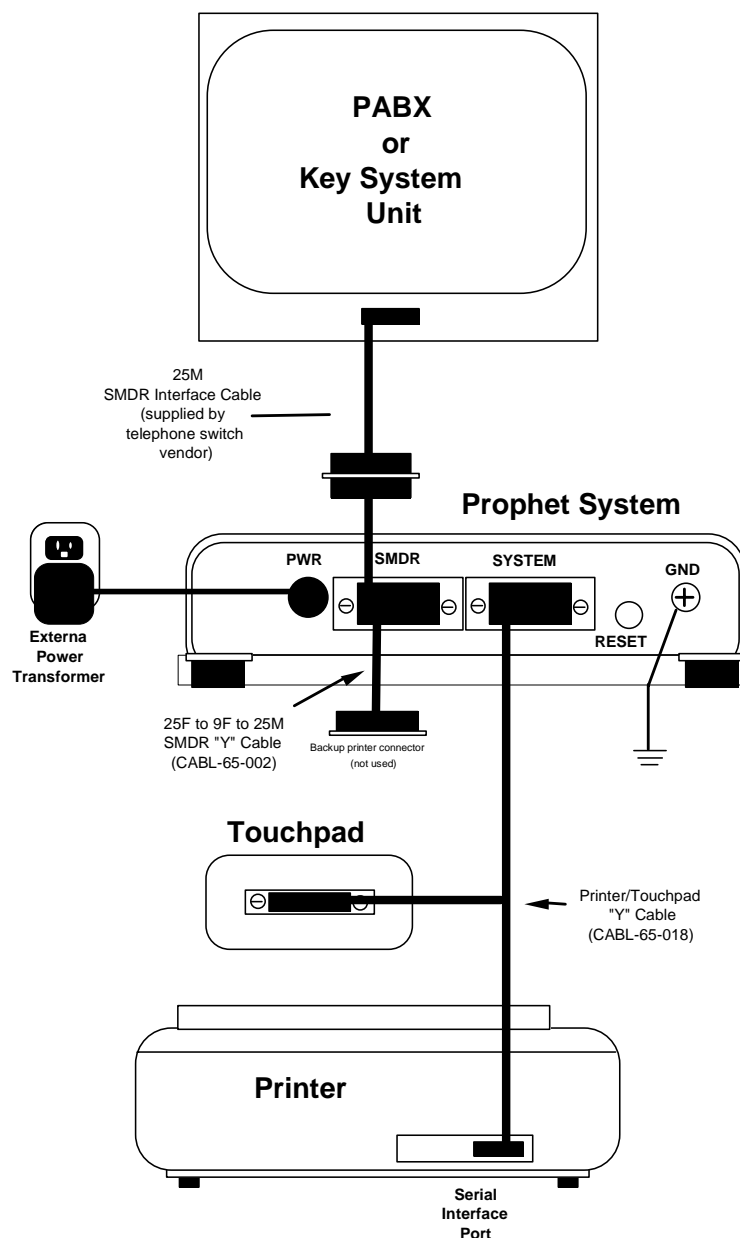
NO

- Place the system into operation.

NOTE: The following conditions apply to telephone command configurations:

- *The telephone switch must be able to pass all telephone command codes and be programmed to accept the Prophet access code (default = 200) as an area code or local exchange.*
- *Grace period on the telephone switch should be set to the minimum value.*
- *Administrative telephone numbers must be programmed into the admin table of the Prophet system.*
- *The grace period programmed into the Prophet system does not apply to dialed commands.*
- *Rate table 1, positions 190 - 196 set telephone command parameters.*

Configuring for Touchpad Commands



Configuration for Touchpad Commands
Figure 4-4

- Verify that the Prophet's SYSTEM port, touchpad and printer baud rate, data bits, parity and stop bits match. Default settings and dip switch adjustments for the Prophet system are listed in Appendix C.

Refer to the printer manual for baud rate and cabling requirements for that system.

- Connect the SYSTEM / TOUCHPAD / PRINTER cable between the SYSTEM port of the Prophet system, touchpad and the serial port on the printer.
- Tighten the connector screws on all cables.
- Press the reset button on the back panel of the Prophet system and verify a clear message similar to the following:

WARM RESET

H-03 V1.0.0 4113 OPTION 00 01/02/91 09:12 DAY OF WEEK 6

This verifies proper communications between Prophet system & printer.

- Press the <ESC> key on the touchpad.

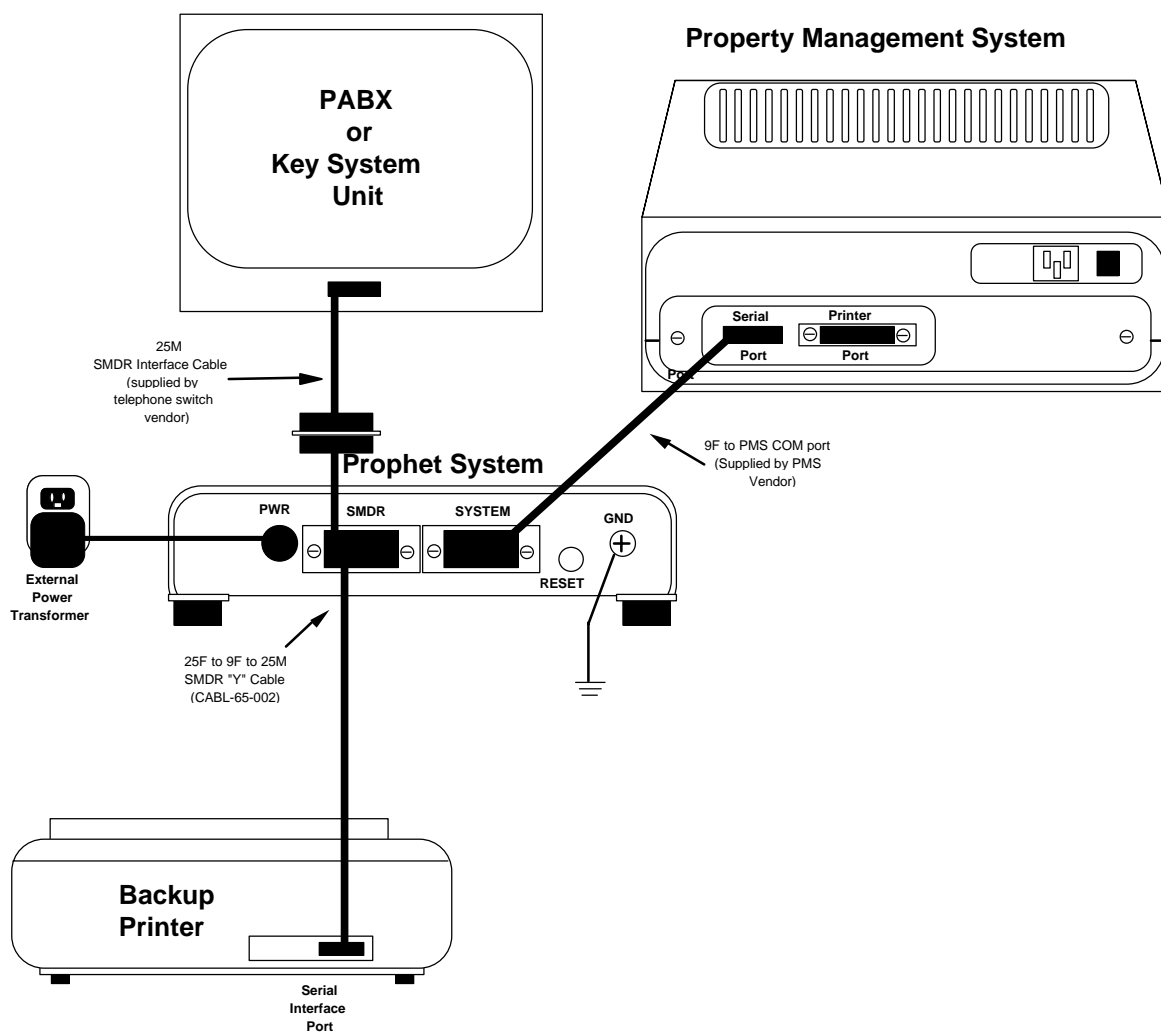
*****MAIN MENU*****

EXTENSION TABLE	C
RATE TABLES	R
CHANGE DATE	D
CHANGE TIME	T
SYSTEM DATA	S
ALL REPORTS	A
ADMIN EXT. TABLE	X
LABEL MENU	L

This verifies proper communications between Prophet system & touchpad.

- Place the system into operation.

Configuring for Property Management System (PMS)



Configuration for Reporting to a PMS
Figure 4-5

- Verify that the Prophet's SYSTEM port, and Property Management System (PMS) baud rate, data bits, parity and stop bits match. Default settings and dip switch adjustments for the Prophet system are listed in Appendix C. Consult the PMS vendor for baud rate and cabling requirements for that system.

- Connect the SYSTEM / PMS cable (provided by PMS vendor) between the SYSTEM port of the Prophet system and the serial port on the PMS.
- Connect the PRINTER end of the SMDR / SWITCH / PRINTER cable to the serial port on the backup printer.
- Tighten the connector screws on all cables.
- Press the reset button on the back panel of the Prophet system and verify a clear message similar to the following:

WARM RESET

H-03 V1.0.0 4113 OPTION 00 01/02/91 09:12 DAY OF WEEK 6

This verifies proper communications between Prophet system & backup printer and activates the PMS option programmed in the system test procedure.

- Make test calls from a guest room phone and verify posting to the PMS.
- Place the system into operation.

NOTE: Refer to Appendix J for additional information on PMS protocol.

System Specifications

Electrical Specifications

- | | |
|-----------------------|---|
| • Data I/O | Two serial, RS-232C |
| • Data Rate | Variable, 300 to 1200 baud |
| • Program Storage | Read Only Memory (ROM) |
| • Call Record Storage | 10 year battery backed Random Access Memory (RAM) |
| • Rate Table Storage | 10 year battery backed Random Access Memory (RAM) |
| • Power | 115Vac, 50-60 Hz,
Less than 1.0 amp (Ext. Xfmr.) |

Mechanical Specifications

- | | |
|----------------------|--|
| • Chassis Dimensions | Width: 5.50" (140.0 mm)
Height: 1.75" (44.5 mm)
Depth: 14.50" (368.3 mm) |
| • Weight | 3 pounds (1.36 kg), Maximum |

Environmental Parameters

- | | |
|---------------------|---|
| • Temperature Range | Operating: 0° to 50°C
32° to 122°F

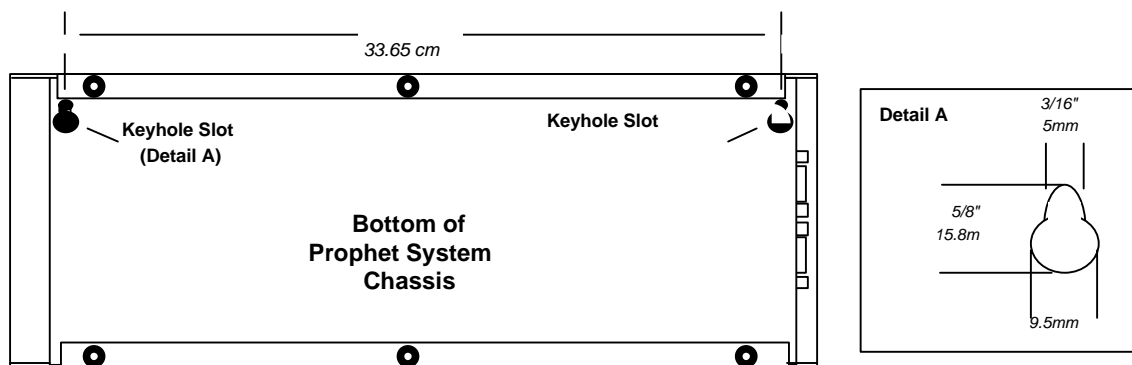
Storage: -40° to 85°C
-40° to 185°F |
| • Humidity | 20% to 95% RH Non-condensing |

Wall Mounting

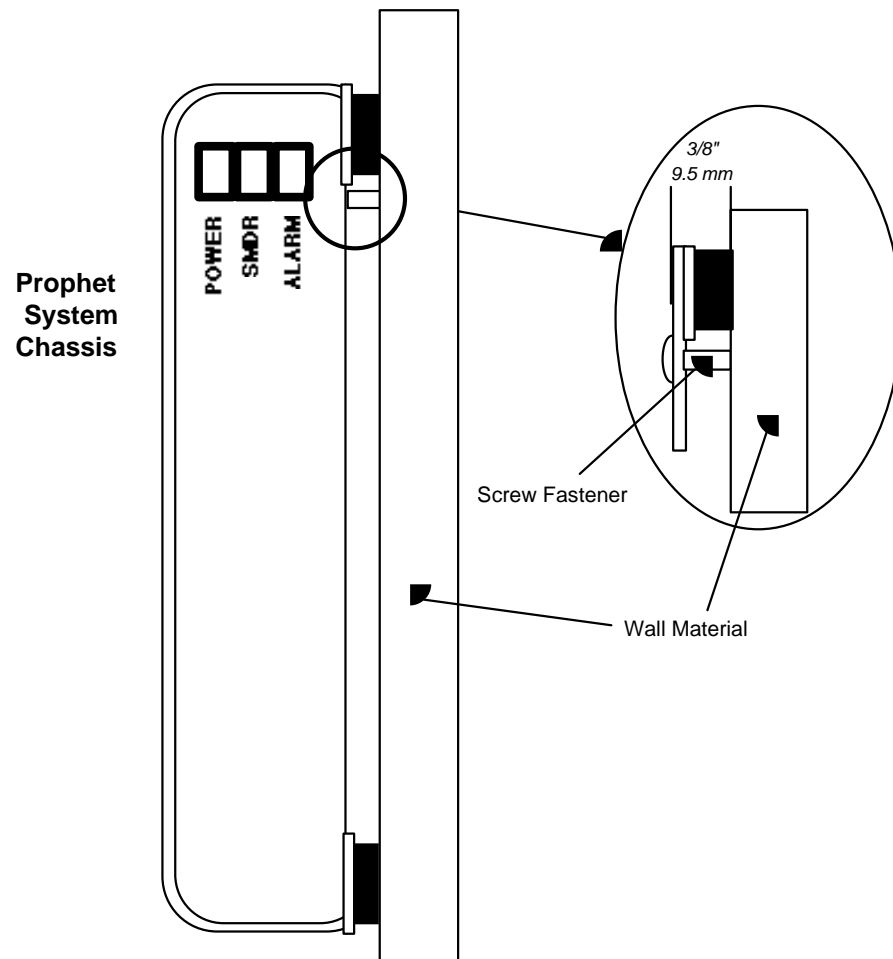
To wall mount the Prophet system, use the two screws provided with the system, or select other fasteners consistent with wall construction having a maximum screw head diameter of 3/8" (9.5 mm) and a maximum shank diameter of 3/16" (5 mm).

The fasteners must firmly grip the wall with the screw head backed away from the wall surface 3/8" (9.5 mm).

Install the two fasteners on a horizontal plane 13-1/4" apart. With the power and RS-232C connectors on your left, slide the keyhole slots over the screws and push down.



*Wall Mounting Chassis Slots
Figure B-1*



*Wall Mounting Position
Figure B-2*

Factory Default Hardware Settings

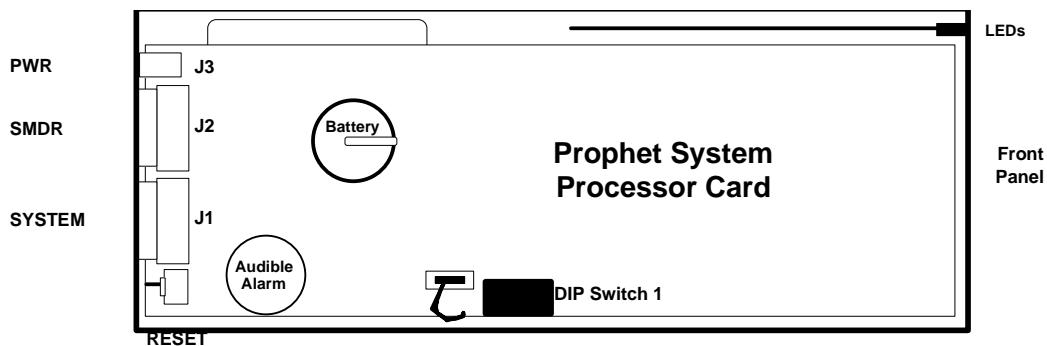
The Prophet system is set at a default baud rate of 1200 bps for communications with the printer. If printed text is garbled and the printer is properly set for 1200 bps, unplug the Prophet system and remove the six screws on the bottom. Slide the cover off the unit and verify DIP switch settings (see Figure C-1 for the DIP switch location).

Printer Baud Rate	Switch 1-1	Switch 1-2
300	OFF (open)	OFF (open)
600	ON (closed)	OFF (open)
1200	* OFF (open)	* ON (closed)
2400	ON (closed)	ON (closed)

CAUTION = Do not use 2400 baud for programming.

Switch	OFF	ON
1-3 Extension learning	disabled	enabled*
1-4 Rate table initialize		*
1-5 Rate table initialize		*
1-6 Rate table initialize		*
1-7 Future use		*
1-8 Future use		*

* Indicates factory setting



Prophet System Chassis
With Cover Removed

DIP Switch Location
Figure C-1

System & SMDR Port Data Parameters

Format

Asynchronous, 1 Start Bit, 8 Data Bits, 1 Stop Bit, NONE Parity
 - OR -
 Asynchronous, 1 Start Bit, 7 Data Bits, 1 Stop Bit, SPACE Parity

Data Rate

Programmable: 300, 600 & 1200 baud

Prophet Protocol

Input : Pin 6 DSR (Busy) Low inhibits output of data
 Output : Pin 4 DTR High enables input of data
 Pin 4 DTR Low indicates " not ready" – inhibits input of data.

Printer Output

Printer output is formatted for 80-column width. The printer must be able to receive Form Feeds (FF). A Line Feed (LF) is provided after a Carriage Return (CR). No fill characters are sent.

System Port J1 Peripheral Interface

The J1 port of the Prophet system is a DTE configuration designed for communication with a printer, terminal, personal computer or modem. J1 connector pinouts are as follows:

Pin	Signal
1	<i>Unused</i>
2	Receive Data (RXD)
3	Transmit Data (TXD)
4	Data Terminal Ready (DTR) – <i>provides high signal when ready to receive data.</i>
5	Signal Ground (SGND)
6	Data Set Ready (DSR) – <i>seeks high signal from the peripheral device before sending data.</i>
7 - 9	<i>Unused</i>

Printer Interface

The Prophet system supports dot matrix printers equipped with a serial, RS-232C interface. Most dot matrix printers have either DIP switches or simple programming procedures for setting operating parameters. Refer to the Owner' s Manual supplied with your printer for information on setting printer operating parameters.

Factory Default Program Settings

- **Input –**
 - PABX Type:** *No default (factory loaded if purchased factory direct)*
 - SMDR Speed:** 300 / 1200 baud
 - Grace Period:** 0.5 minutes
- **Output –**
 - PMS Type:** *No default (factory loaded if purchased factory direct)*
 - Cable Type:** Standard, DTR on pin 20
 - Data bits:** 8
 - Parity:** NONE
 - Baud rate:** 1200
 - Length of form:** 18 lines (3 inches)
 - Transmit to PMS:** on / **(off)** (see PMS listing reverse side)
 - Room Status / Revenue Center:** on / **(off)**
 - Wake-up pass thru:** on / **(off)**
 - Guest room call storage:** on / **(off)**
 - Admin phone call storage:** on / **(off)**
 - Admin extensions programmed:** yes / **(no)**
 - Auto report time:** 23:59
- **Rate tables –** **Factory loaded:** **(yes)** *(if purchased factory direct)*
- **Toll calls –**

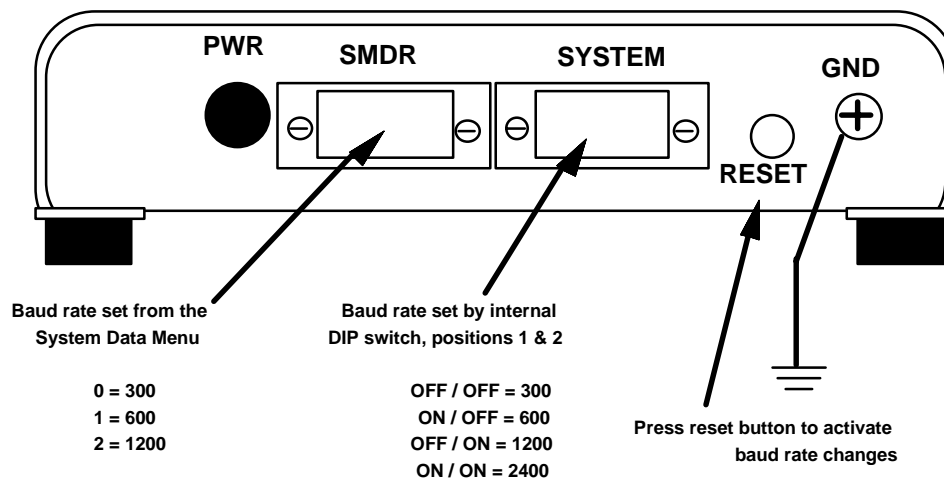
	<u>AREA CODE + EXCHANGE</u>	<u>EXCHANGE</u>	<u>INTERNATIONAL</u>
Tax (0.00 - 2.40):	3%	3%	3%
Profit (0.00 - 2.40):	20%	20%	40%
Surcharge (0.00 - 4.80):	\$1.55	\$1.00	\$2.40
Credit card (0.00 - 2.40):	drop	drop	drop
- **Modified area codes –area code + 555:** \$0.75 **(flat)** / per minute / drop
 - 800:** flat / per minute / **(drop)**
 - 900 (Should be blocked at PABX):** \$2.40 flat / **(per minute)** / drop
- **Modified exchange codes –local calls:** \$0.50 **(flat)** / per minute / drop
 - 411:** \$0.75 **(flat)** / per minute / drop
 - 911:** flat / per minute / **(drop)**
 - 555:** \$0.75 **(flat)** / per minute / drop
 - 950:** flat / per minute / **(drop)**
 - 976 (Should be blocked at PABX):** \$2.40 flat / **(per minute)** / drop

900 and 976 calls can be increased to high dollar amounts if required. See Appendix H location 030 for details..

RS-232 Principles

The purpose of this discussion is to familiarize you with basic RS-232C principles and how they apply to the SMDR and SYSTEM ports on the Prophet system.

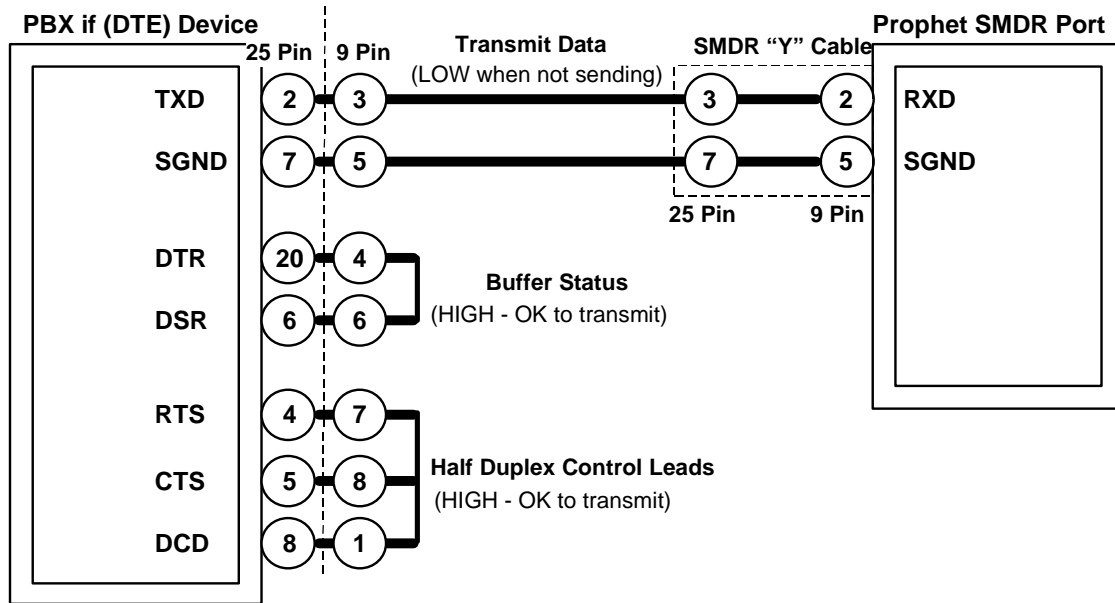
Rear Panel



*Prophet System Rear Panel
Figure D-1*

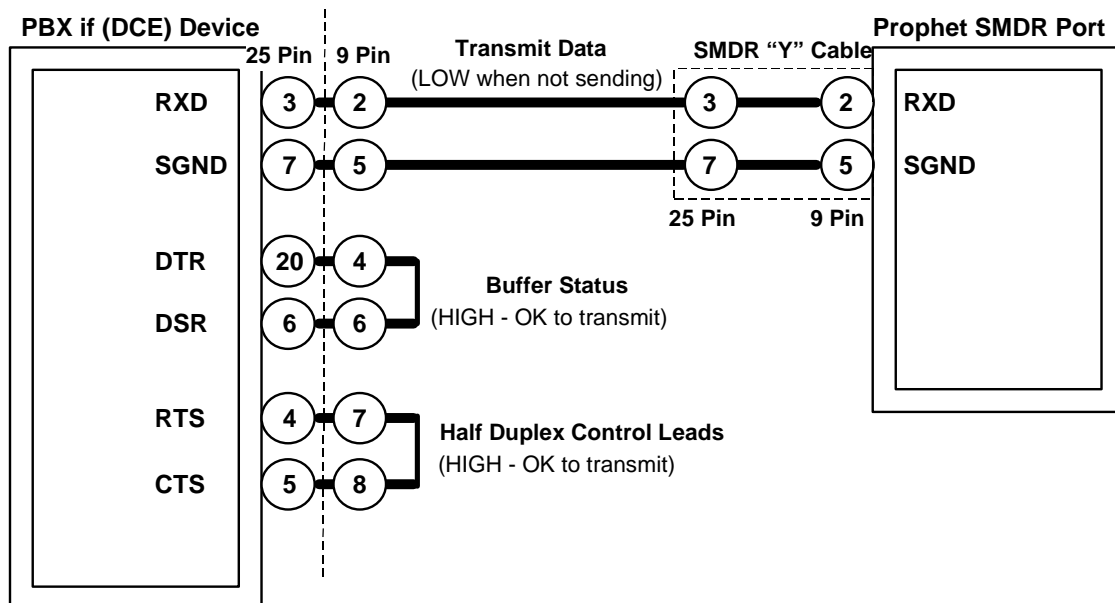
The Prophet system has two ports which operate in a " Full Duplex" mode (transmission and reception of data can occur simultaneously). The baud rate of each port (speed of data transfer) can be set individually by setting internal dip switches to change the SYSTEM port baud rate and using the Prophet' s SYSTEM MENU to set the SMDR port baud rate. Baud rate changes on either port are activated by pressing the RESET BUTTON on the back panel of the unit.

PBX to Prophet Wiring Diagram (with SMDR “Y” Cable)



(DTE) PBX SMDR to SMDR “Y” Cable

Figure D-2



(DCE) PBX SMDR to SMDR “Y” Cable

Figure D-3

Pin Functions**9-Pin Format (DTE)**

The Prophet RS-232 ports match the IBM PC format and perform the following functions:

<u>Pin</u>	<u>Signal</u>	<u>Function</u>
1	DCD	<u>Data Carrier Detect</u> - NOT USED.
2	RXD	<u>Receive Data</u> - Incoming data.
3	TXD	<u>Transmit Data</u> - Outgoing data.
4	DTR	<u>Data Terminal Ready</u> - Transmits a HIGH (+12V) indicating the Prophet system's input buffer is ready to receive data on pin 2.
5	SGND	<u>Signal Ground</u> - Ground reference for all signal data (<u>NOT</u> FRAME GROUND).
6	DSR	<u>Data Set Ready</u> - Receives a HIGH (+12V) indicating that the receiving device is ready for the Prophet system to transmit data on pin 3. A LOW (receiving device <u>NOT</u> ready) on this lead will cause the Prophet system to stop transmitting data, generate an audible alarm and light the RED LED on the front panel.
7	RTS	<u>Request To Send</u> - NOT USED.
8	CTS	<u>Clear To Send</u> - NOT USED.
9	RI	<u>Ring Indicator</u> - NOT USED.

25-Pin Format (DTE)

The 25 pin RS-232 EIA standard for DTE' s perform the following functions:

<u>Pin</u>	<u>Signal</u>	<u>Function</u>
1	FGND	<u>Frame Ground</u> - Chassis ground (see <i>Cable Limitations</i> below).
2	TXD	<u>Transmit Data</u> - Outgoing data.
3	RXD	<u>Receive Data</u> - Incoming data.
4	RTS	<u>Request To Send</u> - NOT USED.
5	CTS	<u>Clear To Send</u> - NOT USED.
6	DSR	<u>Data Set Ready</u> - Receives a HIGH (+12V) indicating that the receiving device is ready for the Prophet system to transmit data on pin 3. A LOW (receiving device <u>NOT</u> ready) on this lead will cause the Prophet system to stop transmitting data, generate an audible alarm and light the RED LED on the front panel.
7	SGND	<u>Signal Ground</u> - Ground reference for all signal data (<u>NOT</u> FRAME GROUND).
20	DTR	<u>Data Terminal Ready</u> - Transmits a HIGH (+12V) indicating the Prophet system' s input buffer is ready to receive data on pin 2.

NOTE: For DCE devices the functions of TXD and RXD; DTR and DSR; RTS and CTS are reversed, yet the labels remain unchanged (i.e. the TXD receives data and the RXD sends data).

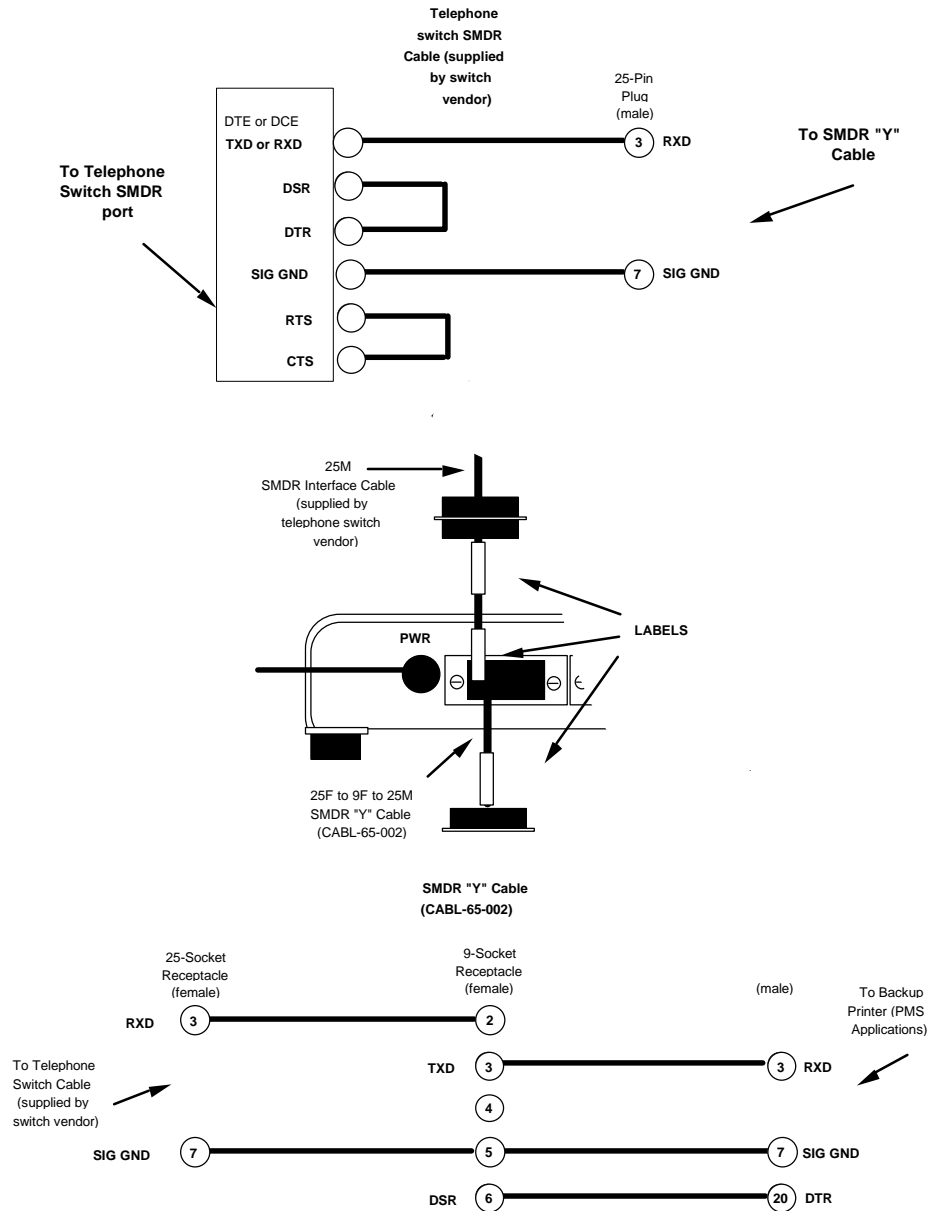
CAUTION: RS-232C cable lengths in excess of the EIA limitation of 50 feet, require that special considerations be observed for reliable operation.

Cable Limitations

RS-232C cable runs in excess of 50 feet are susceptible to noise induced by ground loops and pickup of stray electromagnetic radiation. Observe the following precautions for reliable operation beyond the EIA standard limitation.

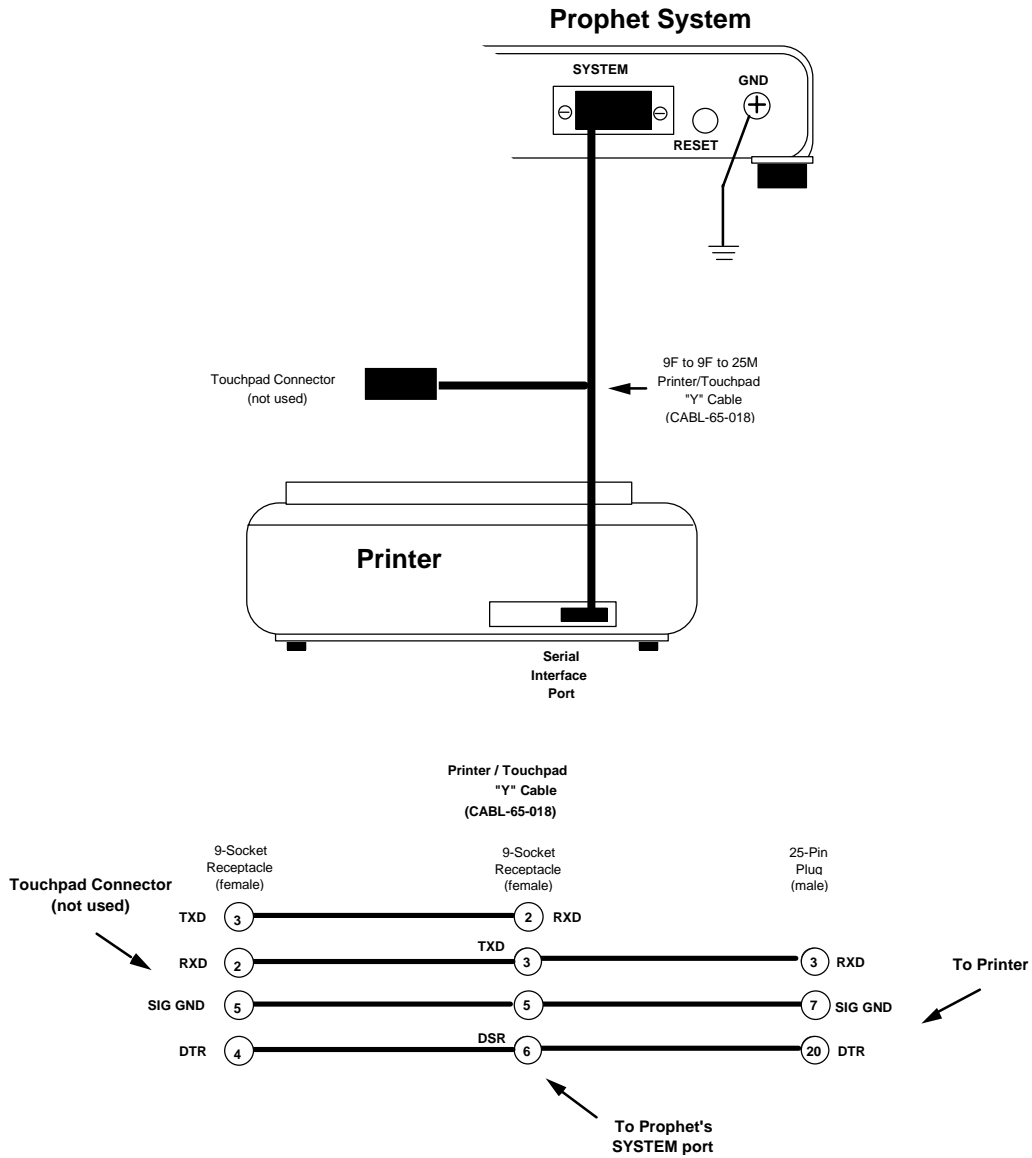
- Use RS-232C designated, shielded cable, approved for distances greater than 50 feet.
- Use cable with the minimum number of pairs required.
- Use protective RS-232C line drivers in areas susceptible to high induced voltages (such as lightning).
- Connect only one end of the shield to frame ground.
- Connect only one end of unused wires to frame ground.
- Ground the frame of each unit locally – not to each other.
- The installation of short-haul modems is **highly recommended** in electrically noisy environments or where cable runs exceed the 50 ft. EIA maximum between the Prophet system and other system peripherals.

SMDR Port Cabling



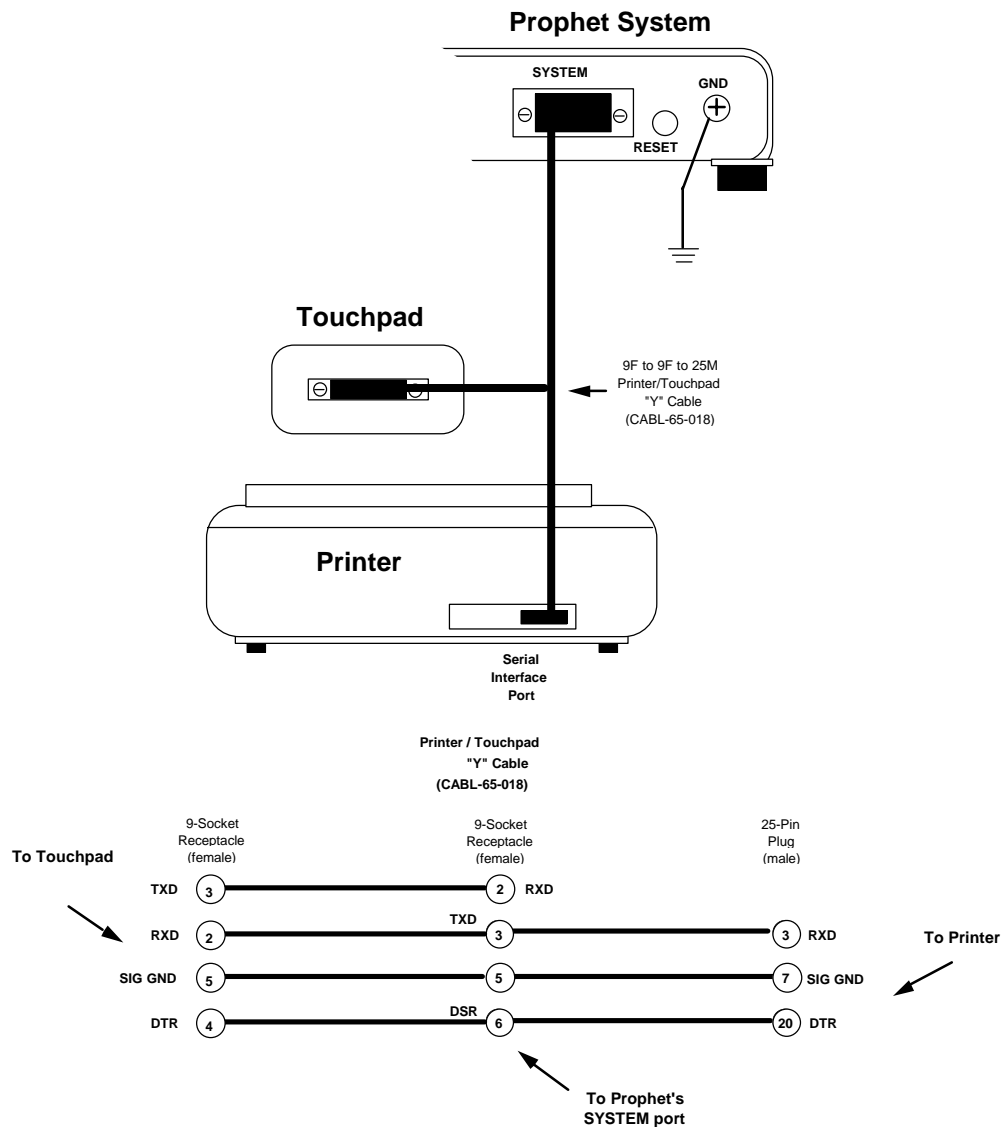
*PABX to SMDR Port Interface
Figure E-1*

SYSTEM Port to Printer Cabling



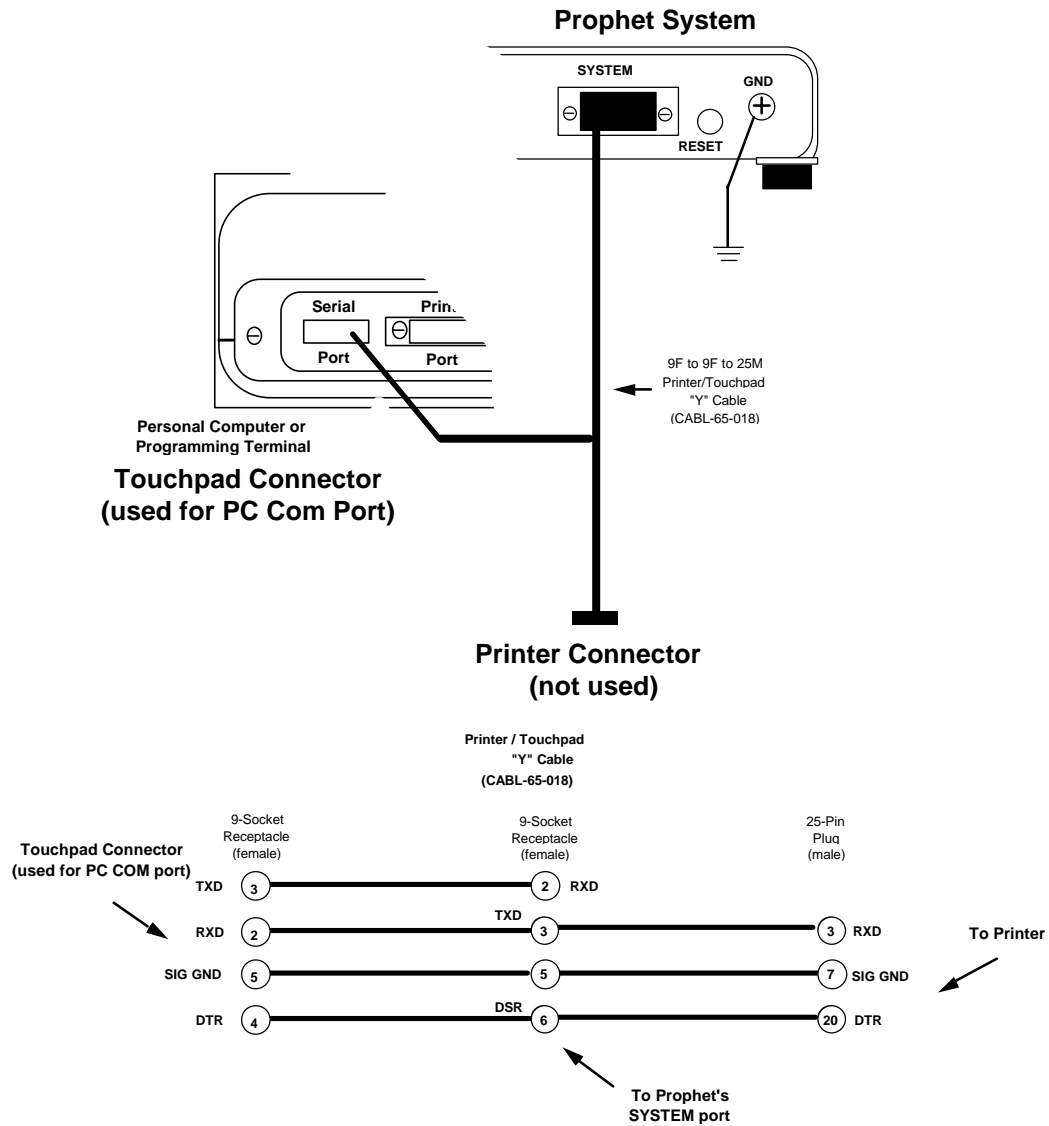
Printer Interface
Figure E-2

SYSTEM Port to Printer / Touchpad Cabling



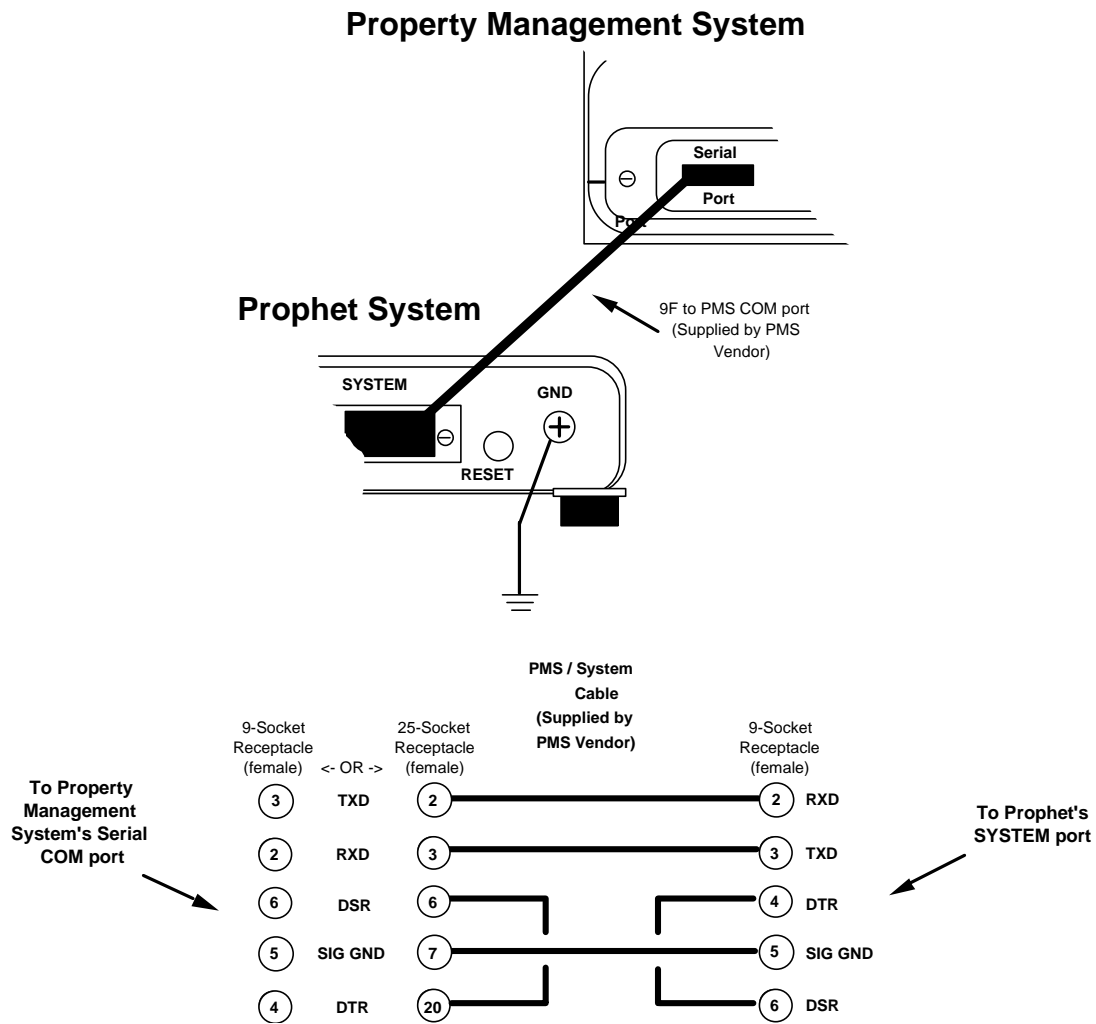
Printer / Touchpad Interface
Figure E-3

SYSTEM Port to Personal Computer Cabling



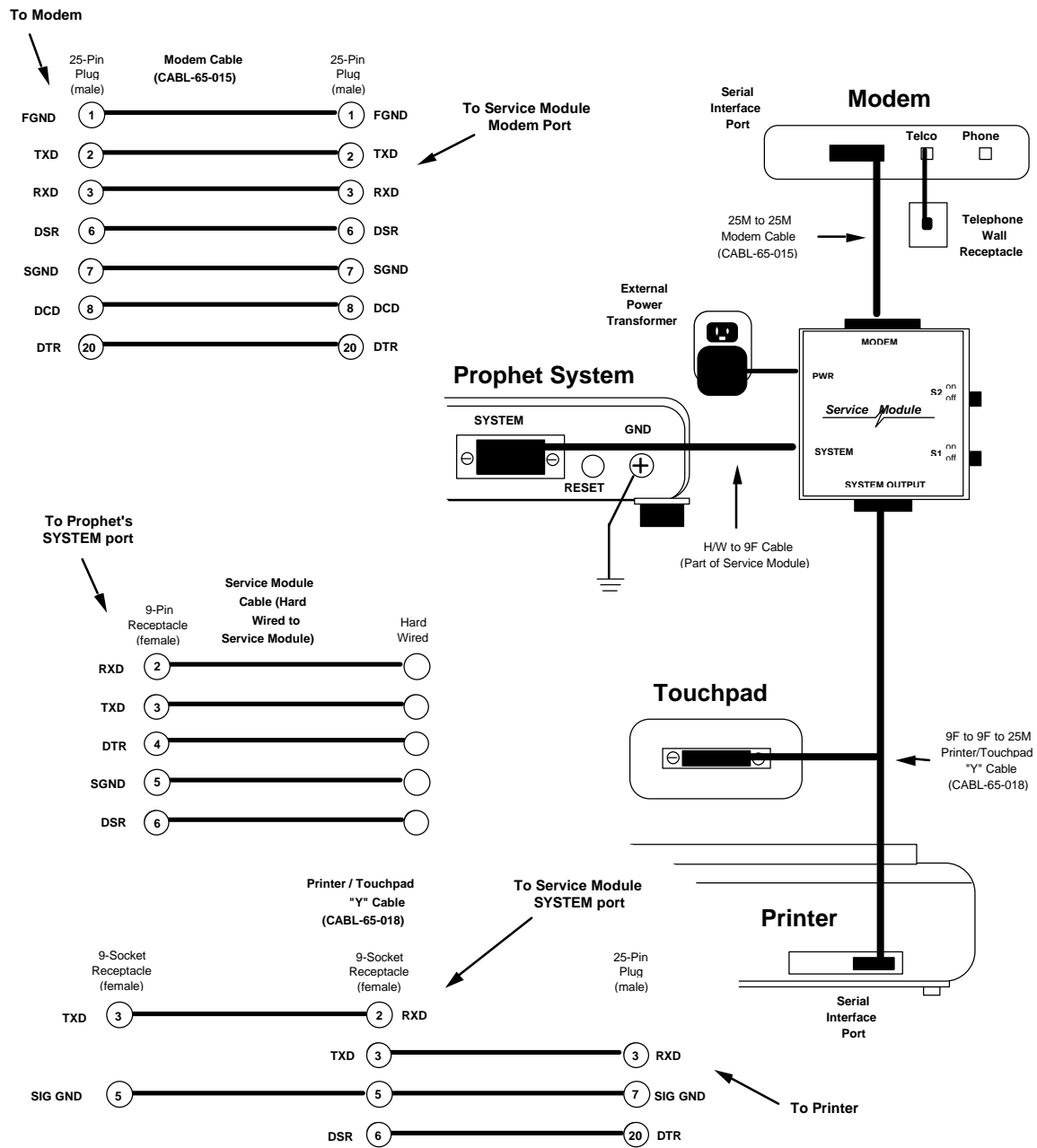
Personal Computer Interface
Figure E-4

SYSTEM Port to Property Management System (PMS) Cabling



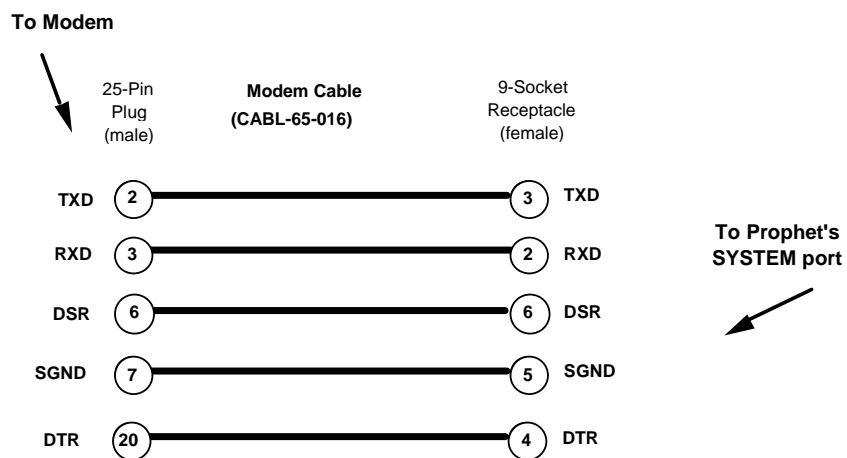
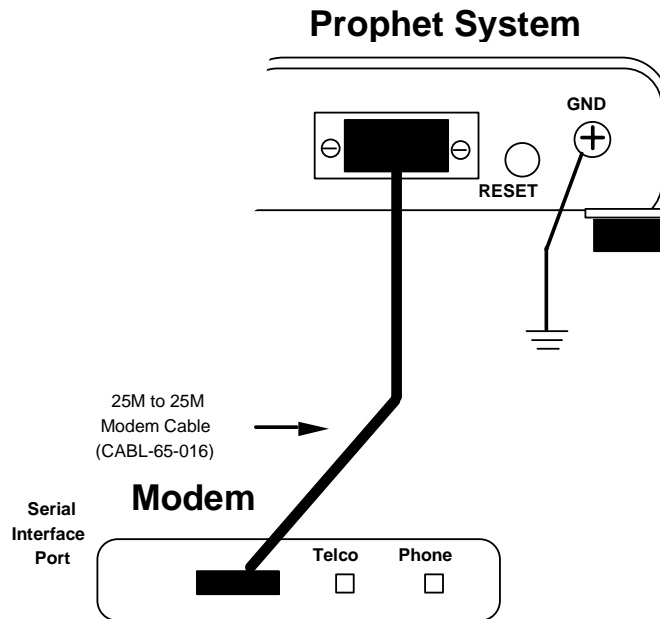
Property Management System Interface
Figure E-5

Service Module Cabling



Service Module / Modem Interface
Figure E-6

SYSTEM Port to Modem Cabling



*Modem Interface for Remote Service
Figure E-7*

Installation Sequence

IMPORTANT: Rates, Default Database, Telephone Switch type and Property Management System Type are already loaded in the Prophet-H prior to shipment, therefore backup of the database, although highly recommended, is at the discretion of the installer. Note that some steps are flagged REQUIRED and others are OPTIONAL (indicated by the borders surrounding the steps). If you reach a point where the REQUIRED step does not function as indicated, perform the OPTIONAL steps that follow the last successful REQUIRED step performed.

PRIOR TO GOING ONSITE

REQUIRED STEPS	OPTIONAL STEPS
	<p>Install and run the Installation & Maintenance Utility on your PC's Hard Drive</p> <ul style="list-style-type: none"> • Insert the Installation & Maintenance Utility Software diskette into drive A: • Type A:INSTALL and press <ENTER>. • Follow the prompts on the screen to load the software on to your hard disk. • Type PROPHETH and press <ENTER>.
	<p>Connect the Prophet-H your PC. NOTE: The touchpad "Y" cable can be used. TOUCHPAD connector to PC COM port and SYSTEM connector to Prophet-H.</p> <ul style="list-style-type: none"> • Connect the Prophet-H SYSTEM port to the PC COM port (COM1 or COM2). • Apply power to the Prophet-H. • Select UTILITIES from the MAIN MENU. • Select MODEM PARAMETERS from the UTILITIES MENU. • Verify the COM port selection matches the port connected to the Prophet-H. Save any changes.

REQUIRED STEPS	OPTIONAL STEPS
	<p>Download a copy of the rate table database from the data center (for backup)</p> <ul style="list-style-type: none"> • Select DATABASE TRANSFER from the MAIN MENU. • Select DOWNLOAD RATES FROM DATA CENTER. • Enter the User ID and Serial Number (from the packing slip) when prompted.
	<p>Download a copy of the Prophet-H database onto a floppy drive (A: or B:).</p> <ul style="list-style-type: none"> • Select DATABASE TRANSFER from the MAIN MENU. • Select COPY DATABASE FROM SYSTEM TO PC. <i>Do this step twice onto two diskettes keeping one diskette as a factory original database and the other as a working copy.</i>
	<p>Customize the database to meet the customers requirements.</p> <ul style="list-style-type: none"> • Select DATABASE MAINTENANCE from the MAIN MENU. • Choose USE THE EXISTING PC DATABASE. • Make changes to the default database to meet customer requirements. <i>Changes will be saved on diskette and transfered into the Prophet-H at the end of each screen.</i>

EQUIPMENT THAT WILL BE REQUIRED ONSITE

(IMPORTANT: ENSURE ALL EQUIPMENT LISTED IS ON HAND PRIOR TO CONTACTING PRODUCT SUPPORT)

REQUIRED STEPS	OPTIONAL STEPS
<p>Required Equipment.</p> <ul style="list-style-type: none"> • A lap top PC with the Installation & Maintenance Utility software and a customer database diskette (formatted diskette with database)- OR -a programming terminal. • Pin extractor (provided with the system) • Flat blade & Phillip screw drivers. • RS-232C breakout box • Multimeter. • Prophet-H Installation & Maintenance Manual. • Prophet System, cables and components for system test and final configuration. 	<p>Optional Equipment (Highly Recommended)</p> <ul style="list-style-type: none"> • 1200/300 baud asynchronous HayesTM compatible modem and 9 - 25 modem cable. • 9 - 25 adapter. • Gender changer. • Null modem adapter.

INSTALLATION ONSITE

REQUIRED STEPS	OPTIONAL STEPS
<p>Placement of the Prophet-H.</p> <ul style="list-style-type: none"> • Keep the Prophet-H, Serial Printer and Touchpad / Property Management System together at the front desk. • Run the SMDR cable from the telephone switch to the Prophet-H SMDR "Y" Cable (RXD, SGND and DTR-if required). 	
<p>System port test</p> <ul style="list-style-type: none"> • Connect either a PC with the Installation & Maintenance Utility Software (use the DIRECT MODE from the UTILITIES MENU)- OR -a Programming Terminal to the SYSTEM port of the Prophet-H. <i>Use the Touchpad "Y" cable (TOUCHPAD connector to the PC COM port). A gender changer or 9 to 25 adapter may be needed to complete the connection.</i> • Press <ESC> to SIGN-ON. <i>The Main Menu will appear.</i> • Type # (Shift key & #). Record the two digit number after the word "OPTION". • Type 00. <i>The Option number will change to 00.</i> 	

REQUIRED STEPS	OPTIONAL STEPS
<p>SMDR port test</p> <ul style="list-style-type: none"> • Connect the SMDR cable from the telephone switch to the jack labeled "SWITCH" on the SMDR "Y" cable. • Connect the SMDR "Y" cable to the SMDR port on the Prophet-H. 	
	<p>Verifying SMDR baud rate (DIRECT MODE if using I & M Utility Software)</p> <ul style="list-style-type: none"> • Type <ESC>, then R to enter the rate tables. • Type 1 to select rate table #1. • Type 0800.01 to turn ON the "See-through" mode. • Make a one minute test call and then hang up. Garbled data indicates a mismatch between the Telephone switch and Prophet-H SMDR port baud rates. To correct, type <ESC>, then S, then B followed by the baud rate code (0=300, 1=600, 2=1200 baud). PRESS THE RESET BUTTON ON THE PROPHET TO ACTIVATE THE CHANGE. No data printed (but the Yellow SMDR LED flashes) indicates possible damage to the Prophet. Call Technical Support (603)624-4424.

REQUIRED STEPS	OPTIONAL STEPS
	<p>Verifying Call Data Processing</p> <ul style="list-style-type: none"> • Type <ESC>, then R to enter the rate tables. • Type 1 to select rate table #1. • Type 0800.00 to turn OFF the "See-through" mode. • Type 0810.01 to turn ON "Accepted Records" diagnostic mode. • Type 0820.01 to turn ON "Rejected Records" diagnostic mode. • Type 0830.01 to turn ON "Dropped Records" diagnostic mode. • Make a one minute test call and then hang up. <p>Refer to the Diagnostics Format page 4-15</p> <ul style="list-style-type: none"> • Verify that the record was ACCEPTED and that the data in the "From Switch" line is stored in the proper locations of the "Stored data" line. The "Output" line reflects the processed call from the Prophet. No data output (but the Yellow SMDR LED flashes & "See-through" mode functioned correctly) indicates an improper switch type. Reload the switch type using the Installation & Maintenance Utility Software. • PRESS THE RESET BUTTON ON THE PROPHET TO TURN OFF DIAGNOSTICS.

REQUIRED STEPS	OPTIONAL STEPS
<p>Verifying call record data</p> <ul style="list-style-type: none"> • While watching the YELLOW SMDR LED on the front panel, make a one minute test call and then hang up. The SMDR LED should flash shortly after you hang up and the priced call record will be printed on the PC or programming terminal. • Type <ESC>, then #. Enter the original OPTION number recorded above. Verifying call record data • While watching the YELLOW SMDR LED on the front panel, make a one minute test call and then hang up. The SMDR LED should flash shortly after you hang up and the priced call record will be printed on the PC or programming terminal. • Type <ESC>, then #. Enter the original OPTION number recorded above. 	
<p>Connecting for final configuration (select one of the following applications)</p> <p>TELEPHONE COMMANDS or PRINT "ON THE FLY" (Prophet-H & Printer only) Options 00, 04, 08 or 12</p> <ul style="list-style-type: none"> • Using the Touchpad “Y” cable provided, connect the Prophet-H SYSTEM port to the serial printer port. The touchpad connector is not used in this application. • Make a one minute test call. If the option number is 00, a priced call record will print shortly after you hang up. • If the OPTION is set for 04, 08 or 12, pick up the designated admin phone and dial 2005000, wait ten seconds and hang up. All stored call records will print shortly after you hang up. <p>TOUCHPAD COMMANDS (Prophet-H, Touchpad & Printer) Options 00, 04, 08 or 12</p> <ul style="list-style-type: none"> • Using the Touchpad "Y" cable provided, connect the Prophet-H SYSTEM port, Touchpad and serial printer port together. • Make a one minute test call. If the option number is 00, a priced call record will print shortly after you hang up. • Using the touchpad, type O0000. All stored call records will print shortly after completing the command. 	

REQUIRED STEPS	OPTIONAL STEPS
PROPERTY MANAGEMENT SYSTEM (Prophet-H, Printer & PMS)Options 03, 07, 11 or 15 <ul style="list-style-type: none">• Connect the serial printer to the SMDR "Y" cable.• Using a null cable, connect the Prophet-H SYSTEM port to the PMS COM port.• Press the reset button on the back of the Prophet-H.• Make a one minute test call. The call should post immediately to the PMS system.	

Command Quick Reference

OUTPUT OPTIONS

Program Key Strokes	Print "On the Fly"	Store Calls/Print on Audit Report	Post to PMS (Immediately)	Print to Backup Printer (for PMS Options)
<ESC> # 00	All Calls	No	No	Not Used
<ESC> # 03	Admin if 087=0.00	No	Guest & (Admin if 087=0.01)	Calls NOT Posted to PMS
<ESC> # 04	Admin Calls	Guest Calls	No	Not Used
<ESC> # 07	Admin if 087=0.00	Guest Calls	Guest & (Admin if 087=0.01)	Calls NOT Posted to PMS
<ESC> # 08	Guest Calls	Admin Calls	No	Not Used
<ESC> # 11	No	Admin Calls	Guest & (Admin if 087=0.01)	Calls NOT Posted to PMS
<ESC> # 12	No	Guest & Admin Calls	No	Not Used
<ESC> # 15	No	Guest & Admin Calls	Guest & (Admin if 087=0.01)	Calls NOT Posted to PMS

PMS MODE

<ESC> G = Toggle PMS mode ON & OFF (for ODD numbered Output Options). PMS mode MUST be OFF to program the Prophet-H. If the Prophet-H does not display the main menu after pressing <ESC>, type <CTRL> f, repeatedly to release call records, then press <ESC> G to toggle PMS mode OFF. See the Prophet-H Installation & Maintenance manual appendix F for troubleshooting and appendix J for PMS detail.

ROOM REPORTS

E0000 = Report stored calls from all rooms and admin extensions then CLEAR.
 Errrr = Report stored calls from an individual room or admin extension then CLEAR.
 O0000 = Report stored calls from all rooms and admin extensions then DO NOT CLEAR.
 Orrrr = Report stored calls from an individual room or admin extension then DO NOT CLEAR.

ADMIN EXTENSIONS

Those extension numbers entered in the ADMIN TABLE (see main menu) are priced at cost only. All other extensions are considered Guest room extensions and are priced at cost plus profit markup plus surcharge (see Appendix H & I for detail).

COMMONLY USED RATE TABLE LOCATIONS

RATE TABLE	LOCATION	COMMAND FUNCTION	DEFAULT VALUE
ALL	005	Surcharge, Weekday	1.55
ALL	006	First Flat Rate (Type "F" in NPA/NXX location)	0.50
2	008	Local Flat Rate	0.50
ALL	009	Profit Multiplier	0.20
ALL	010	Tax Multiplier	0.03
1	011	Pointer to International Table (if installed)	T3 - J
ALL	016	First Flat Rate for Admin. Extensions (actual cost)	0.50
ALL	020	Grace Period for Table (0.05 = 5/10 = 30 seconds)	0.00
ALL	025	Surcharge, Weekend	1.55
1	095	Report Menu (enabled = 0.01, disabled = 0.00)	0.00
1	See Manual Apx H & J	Property Management System Parameters (PMS)	
1	087	Transmit Admin Calls to PMS (ON = 0.01, OFF = 0.00)	0.00
1	088	Drop Local Admin Calls (ON = 0.01, OFF = 0.00)	0.00
1	080	See Through Mode (ON = 0.01, OFF = 0.00)	0.00
1	081	Accepted Diagnostics (enable = 0.01, disabled = 0.00)	0.00
1	082	Rejected Diagnostics (enable = 0.01, disabled = 0.00)	0.00
1	083	Dropped Diagnostics (enable = 0.01, disabled = 0.00)	0.00
1	085 - 129	SMDR PBX Parameters	
1	130 - 186	Pass Wake Up & Special Messages	

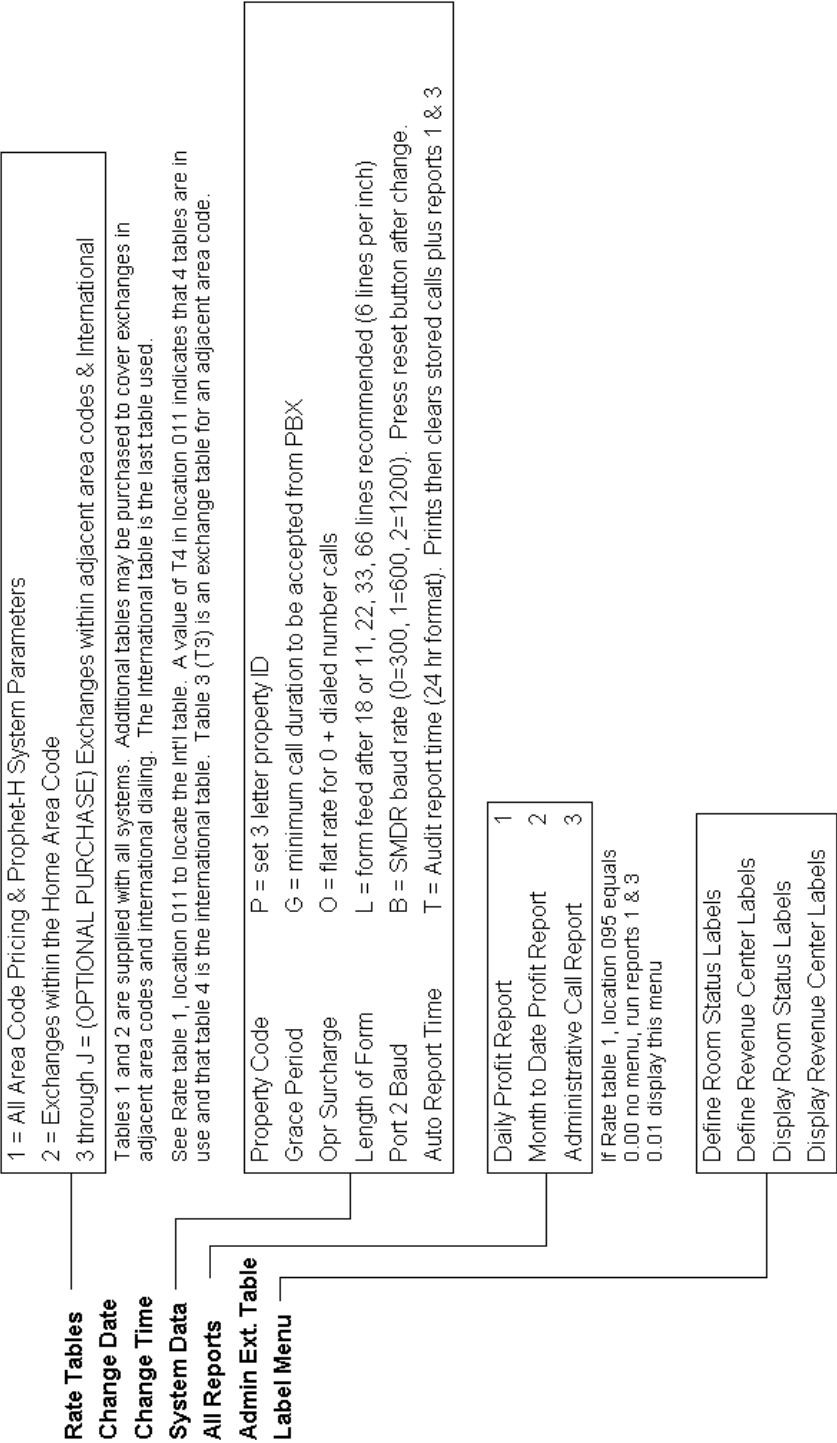
NOTE: Rate table 1 controls operational parameters and pricing to all area codes.

Rate table 2 controls exchange pricing within the home area code.

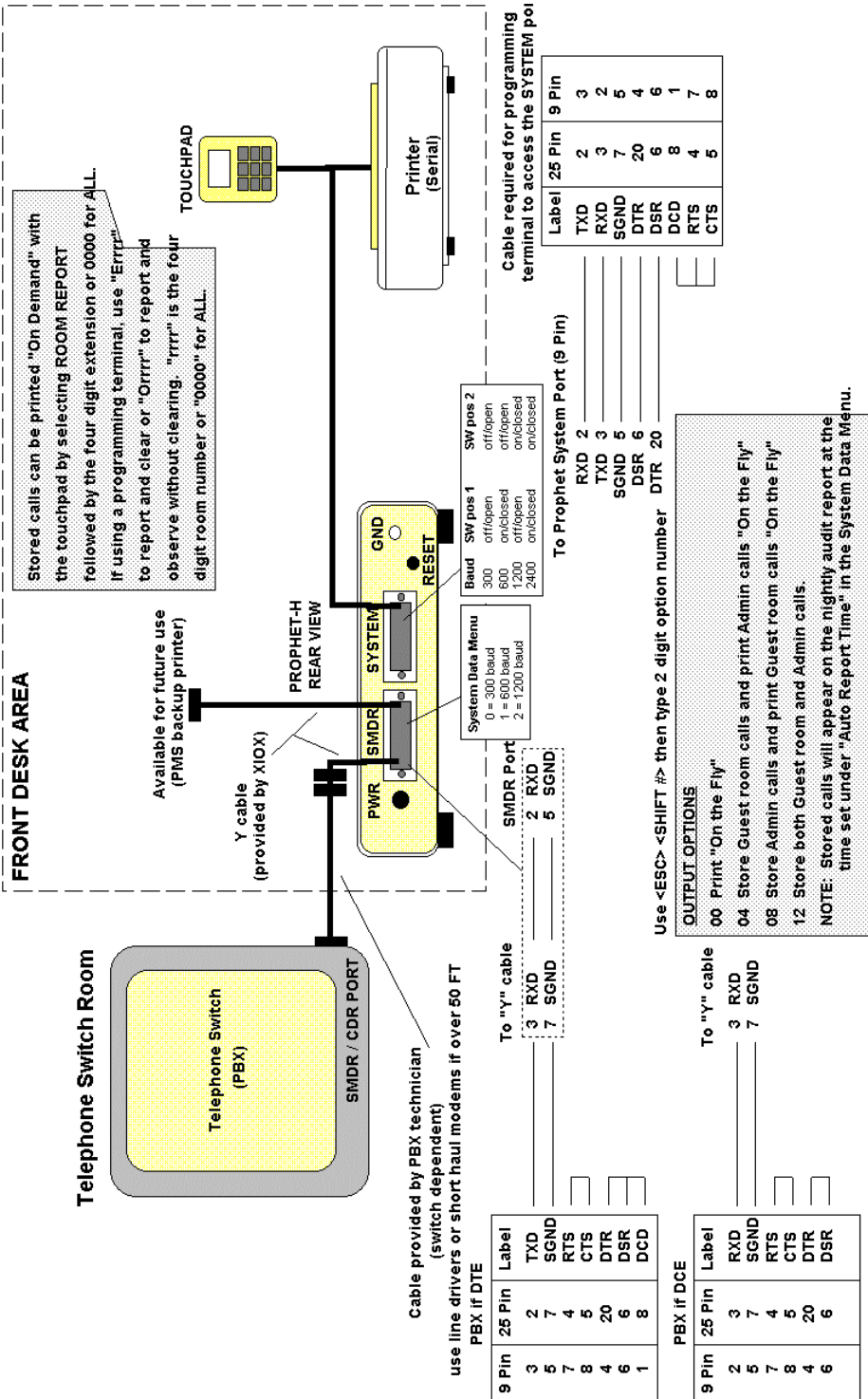
Rate table 3 - J controls pricing to exchanges outside the home area code and International.

Refer to Appendixes H, I & J in the Installation & Maintenance Manual for further detail.

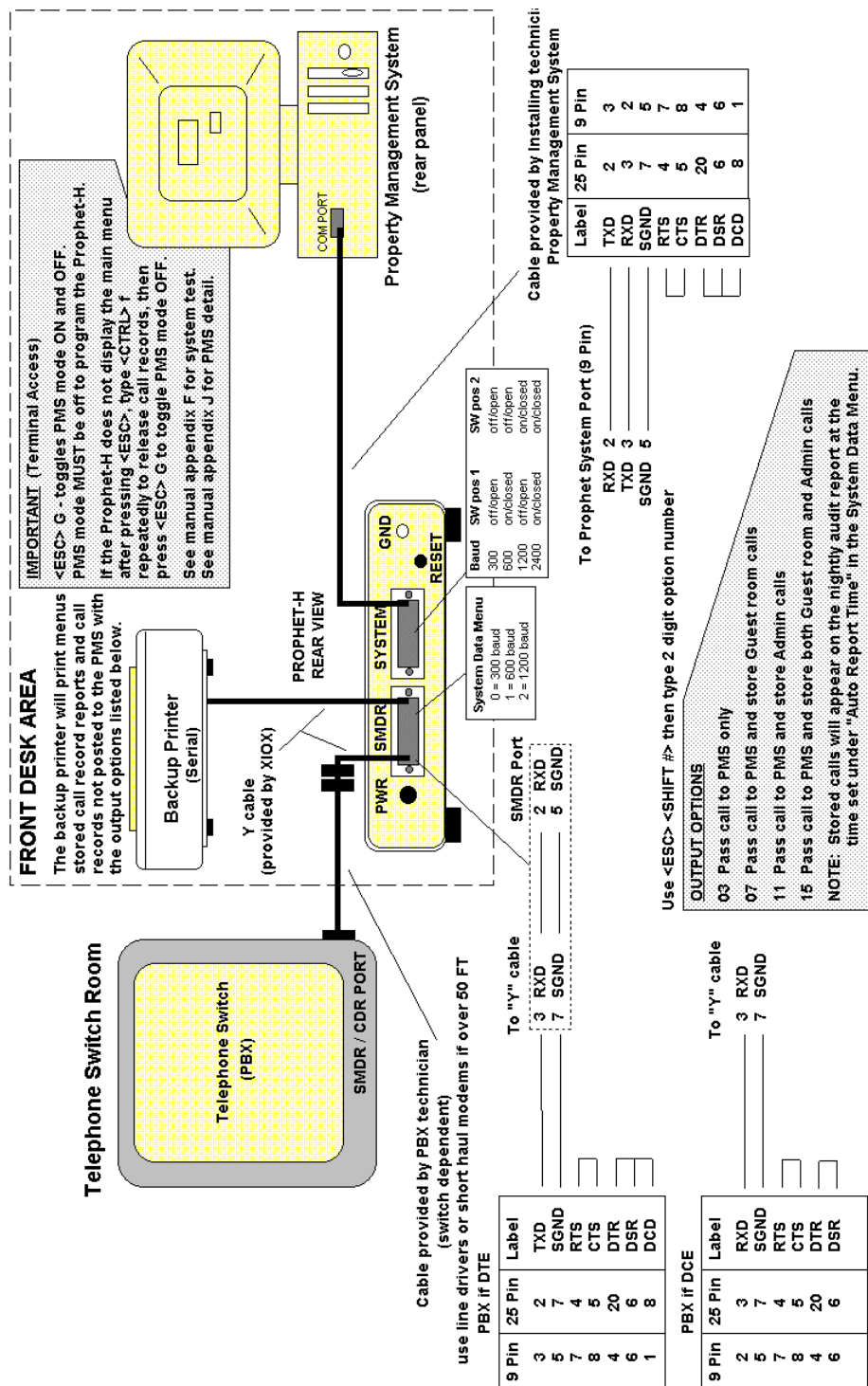
MAIN MENU (Press <ESC>)



Sample Printer / Touchpad Interface



Sample PMS Interface



Service Module

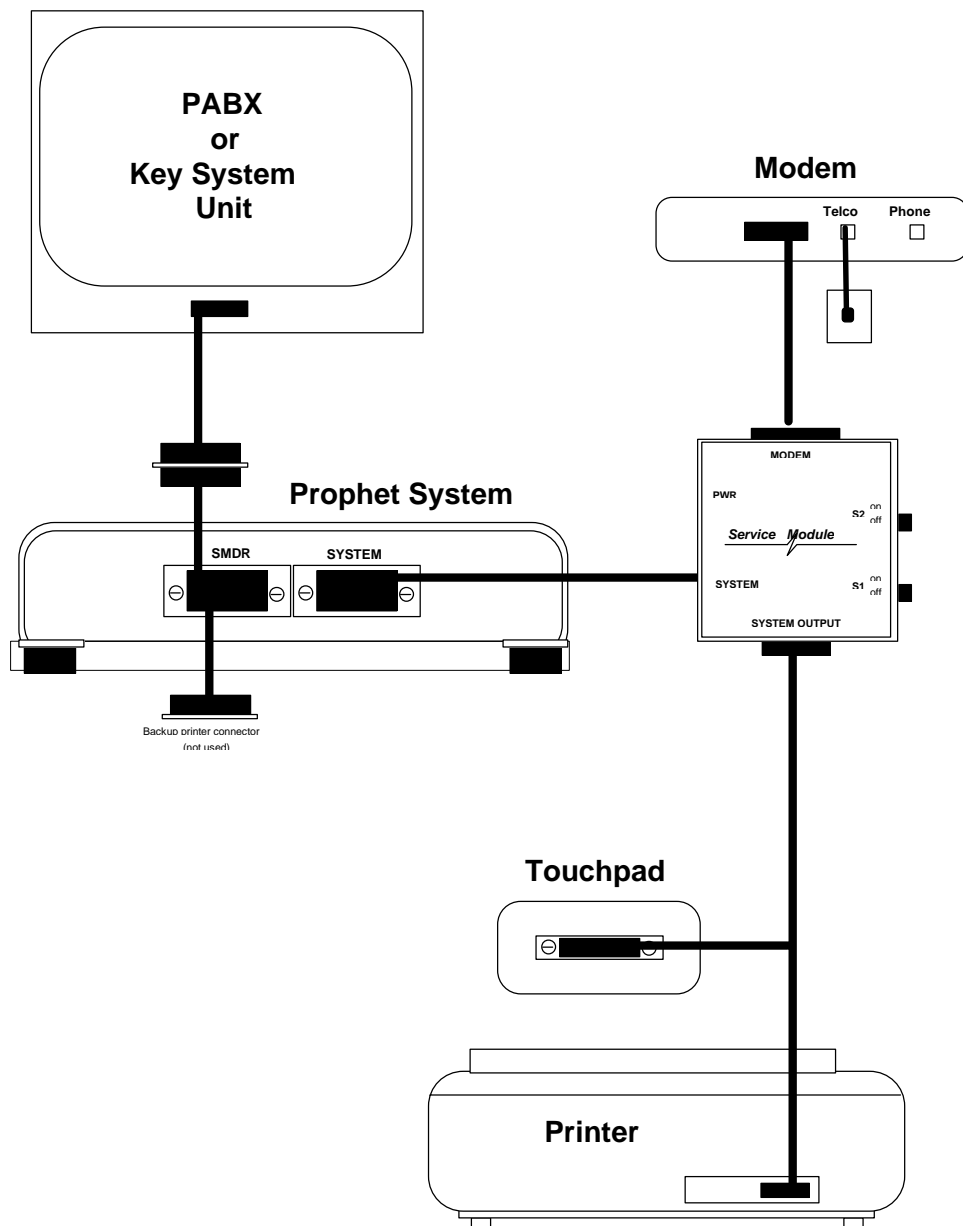
Wall Mounting

The service module may be wall mounted by one of two method:

1. Remove the liner from the adhesive backed reclosabel fastener and then press the service module firmly against the wall surface.
2. Slide the keyhole slot on the back of the service module over a wall mounted screw having a maximum head diameter of 3/8" and a maximum shank diameter of 3/16". The screw head should be backed away from the wall surface approximately 1/8".

Interconnection

Refer to the diagram below for connection of the service module.



Operation

Switches S1 and S2 OFF

This is the normal mode of operation.

Control is provided locally by the Touchpad/Printer combination. When a call is placed to the modem (as in a remote service or rate table download), the service module senses pin 8 (CD) go high and switches control away from the Touchpad/Printer. This prevents corruption of the rate table download by the operator.

NOTE: *Contact the front desk prior to accessing the unit to prevent interruption of reports.*

Switches S1 and S2 ON

This mode is used for remote training or technical assistance

Control is available both locally by the Touchpad/Printer and remotely by through the modem. Touchpad commands are passed to both the Prophet and out to the modem. Modem commands are passed to the Prophet only.

Prophet-H – Rate Table Programming Parameters

Pricing Parameters (USED IN ALL RATE TABLES)

Location	Typical Value	Description (See <i>Setting Profit Controls</i> page 3-39)
001	1.00	Day Multiplier, Weekday.
002	0.63	Evening Multiplier, Weekday.
003	0.52	Night Multiplier, Weekday.
004	1.00	Overtime Multiplier, Weekday.
005	1.55	Surcharge, Weekday (guest room extensions) <i>see 025 & 036 also</i> .
006	0.50	First Flat Rate (guest room extensions, type "F" in area code or exchange position of this table to reference this flat rate). <i>See Setting Profit Controls</i> page 3-39.
007	0.01	Type of Table (0.01 = interstate, 0.02 = intrastate, 0.03 = international, 0.04 = local, 0.00 = calls will not be accumulated as part of the audit record.
008	0.00	Flat Rate amount for all 7 digit dialed numbers to amount shown. Applies to Rate Table 2 Only , charged to guest calls. CAUTION: Unless ALL 7 digit numbers are local calls, set this location to 0.00. Ensure 092 in Rate Table 1 is set to 0.00.
009	0.20	Profit Multiplier (guest room extensions, 0.20 = 20%)
010	0.03	Tax Multiplier (all extensions, 0.03 = 3%)
011 (Ref)	T5	International Reference (points to International table, 0.00 = no international rates). In this example tables 1 through 5 should be programmed with profit markups and surcharges (the international table is the last table factory loaded).
012 (Ref)	1.12	First three digits of rate table serial number
013 (Ref)	0.34	Last two digits of rate table serial number (after the decimal point). Serial number shown = 11234
014 (Ref)	0.02	Month of last rate table update (digits after the decimal point)
015 (Ref)	0.95	Year of last rate table update (digits after the decimal point). Date of last update shown = 02/95
016	0.46	Flat Rate <u>Cost</u> (Actual cost for admin. extensions)
017	0.08	Day pricing start time, Weekday
018	0.17	Evening pricing start time, Weekday
019	0.23	Night pricing start time, Weekday
020	0.00	Rate table Grace Period. Calls below this value will not be reported. Caution: 0.05 = 5/10 = 30 seconds (normally left at 0.00)
021	1.00	Day Multiplier, Weekend
022	0.63	Evening Multiplier, Weekend
023	0.52	Night Multiplier, Weekend
024	1.00	Overtime Multiplier, Weekend

Legend: White = dealer use. Gray = factory or system specific; (REF) = For reference purposes only.

Pricing Parameters cont'd (USED IN ALL RATE TABLES)

Location	Typical Value	Description
025	1.55	Surcharge, Weekend (for Guest room extensions. <i>See 005 & 036</i>)
026	0.00	Connect time - this duration is subtracted from the length of the call to allow for call setup time and must be less than or equal to the value in position 020. Normally set to 0.00.
027	0.08	Day pricing start time, Weekend
028	0.17	Evening pricing start time, Weekend
029	0.23	Night pricing start time, Weekend
030	0.00	0.01 = multiply the value in location 900 (rate table 1) and 976 (all other tables) by 100 (i.e. 900 value of 0.15 = \$15.00 per minute). 0.00 = price as entered.
032	0.00	0.01 = track unrated calls. A value of "NO\$" in area code/exchange locations will be automatically changed to a value of "RATE?" (viewed by using <ctrl R> from within the rate table) and the message "NO PRICE FOR FOLLOWING CALL. CALL FOR SERVICE DURING NORMAL BUSINESS HOURS." will be printed as each new area code or exchange is dialed (received as SMDR). 0.00 disables this feature.
036	0.00	Additional surcharge (added to locations 005 & 025 when a surcharge greater than \$2.40 is needed)
037	0.75	Second Flat Rate (guest room extensions, type "S" in area code or exchange position of this table to reference this flat rate). <i>See Setting Profit Controls page 3-39.</i>
098	0.00	Operator Assist Cost (Actual cost of 0 plus calls for admin call pricing).

Legend: White = dealer use. Gray = factory or system specific; (REF) = For reference purposes only.

System Operational Parameters & Control Flags (USED IN RATE TABLE 1 ONLY)

Location	Typical Value	Description
031	0.00	0.01 enables fill incomplete dialed numbers with "9" (for PBX's that do not output enough digits especially when 10xxx or 10xxxx is used). 0.00 disables this feature.
035	0.00	Minimum number of digits required in dialed number field for record to be accepted (0.00 - 0.03 = 3 digits minimum)
039	0.05	Alarm delay after printer deselect (0.00-1.28 = 0-128 seconds)
089	0.00	Check before clearing call records (prompts before clearing)
092	0.00	One-Plus Dialing Flag. Must be set to 0.00.
188	0.00	0.01 = Run Monthly Report automatically on the first of the month. 0.00 = disable automatic run of Monthly Report (<i>See 095</i>).
197	0.03	Number of hours before the SMDR timeout alarm occurs. 0.01 = 1 hour. The message "NO GUEST CALL REVENUE FOR xx HOURS. CALL FOR SERVICE. mm/dd/yy hh:mm" is printed every hour along with a 10 second alarm (not active between midnight and 7AM). 0.00 = off.

Legend: White = dealer use. Gray = factory or system specific; (REF) = For reference purposes only.

Room Service/Revenue Center Parameters (USED IN RATE TABLE 1 ONLY)

Location	Typical Value	Description
040	0.06	1st digit to dial of access code
041	0.00	2nd Digit of access code
042	0.00	3rd Digit of access code (access code shown = 600)
043	0.04	Room Number Length (Range: 1-4)
044	0.00	Pass room status/revenue center records to PMS

Legend: White = dealer use. Gray = factory or system specific; (REF) = For reference purposes only.

OCC Parameters (OCC's greater than 5 digits) (USED IN RATE TABLE 1 ONLY)

Location	Typical Value	Description
050	0.00	Point to last digit of 1st authorization code
051	0.00	Value of last digit of 1st authorization code (ASCII)
052	0.00	Number of digits to absorb before dialed number (OCC access + auth. code)
053	0.00	Point to last digit of 2nd authorization code
054	0.00	Value of last digit of 2nd authorization code (ASCII)
055	0.00	Number of digits to absorb before dialed number (OCC access + auth. code)
059	0.00	0.01 = Insert "1" in front of dialed number. Used if absorption removes 1+ from area code calls. 0.00 = disabled.

Legend: White = dealer use. Gray = factory or system specific; (REF) = For reference purposes only.

PMS Parameters (USED IN RATE TABLE 1 ONLY)

Location	Typical Value	Description
033	0.00	0.01 = do not post zero priced calls to PMS. 0.00 = post zero priced calls to PMS.
034	0.00	No. of Digits in Duration Field (0.00 = 4 digits, 0.01 = 5 digits)
045	0.00	Round Up To Whole Minutes
046	0.00	HOBIC Style Sequence Number
047	0.00	Left Justify & Space Fill Room Number
048	0.00	Put Dashes In Dialed Number Field
049	0.00	Number of Digits in the Dollar Field (0.00 = 4, 0.01 = 3)
060	0.01	PMS Record Type (0.00 = Compressed, 0.01 = Expanded)
061	0.01	PMS Attention Character Used. 0.01 = Enabled.
062	0.05	Attention Character. 0.05 = use ASCII value 005 = ENQ.(a standard value)
063	0.06	Acknowledgement: Attention Character Rec'd 0.06 = use ASCII value 006 = ACK
064	0.06	Acknowledgement: Character/Record Rec'd 0.06 = use ASCII value 006 = ACK
065	0.21	Non-Acknowledgment: Record Not Rec'd 0.21 = use ASCII value 021 = NAK
066	0.02	Start-of-Text character for PMS record 0.02 = use ASCII value 002 = STX
067	0.03	End-of-Text character for PMS record 0.03 = use ASCII value 003 = ETX
068	0.11	Time delay for PMS response after output of record in seconds. 0.11 = 11 secs
069	0.07	Time delay between transmissions of attention character in seconds. 0.07 = 7 secs.
070	0.01	Decimal point in duration field flag. 0.01 = Enabled.
071	0.01	Local flag location. 0.01 = place "L" at end of record.
072	0.00	Pass wake up messages to PMS flag. 0.00 = disabled, 0.01 = enabled.
073	0.03	Number of retries before rejection. 0.03 = 1 original plus 3 retries (4 attempts).
074	0.01	Suppress printer control characters. 0.01 = enabled, 0.00 = disabled.
075	0.01	Output a block check character at the end of record. 0.01 = enabled, 0.00 = disabled.
076	0.00	0.01 = Display dialed number digits for 0 plus calls. 0.00 = disabled.
077	0.01	Number of spaces between fields. 0.01 = one space.
078	0.01	Flag international calls with an "F". 0.01 = enabled, 0.00 = disabled.
079	0.00	Fill dialed no. field with spaces. 0.01 = enabled, 0.00 = disabled.
087	0.00	Transmit administrative calls to PMS. 0.01 = enabled, 0.00 = disabled.
088	0.00	Drop local administrative calls. 0.01 = enabled, 0.00 = disabled.
090	0.03	System port parity control code (0 = S, 1 = M, 2 = E, 3 = O)
091	0.00	Size of Call Record Input Buffer in pages (1 page ≈ 3 calls). Keep this number small to allow for call overflow to backup printer in the event of PMS failure (approx 5 mins of call activity).
093	0.01	0.01 = Suppress leading zeros in call pricing field. 0.00 disables this feature.
095	0.00	0.01 = Display Report Menu. 0.00 = Run Daily Profit and Admin Call Report only (no menu option) Monthly Report cannot be run manually (<i>See 188</i>).
096	0.00	System port - number of stop bits (0.00 = 1, 0.01 = 2)
187	0.00	Pass "S" flagged record (special) to PMS when access code indicated is dialed.
189	0.01	0.01 = Do not post zero priced calls. 0.00 = Post zero priced calls.
198	0.05	Number of minutes before PMS attention timeout. 0.05 = if no acknowledgement (ACK) within 5 mins, switch to single attempt then pass unacknowledged call to backup printer. 0.00 = disabled,
199	0.01	Number of hours before PMS timeout alarm. 0.01 = If PMS fails to respond within 1 hour, a two second alarm sounds followed by the message "CALLS NOT POSTING TO GUEST FOLIOS. CALL FOR SERVICE.". 0.00 = disabled,

Legend: White = dealer use. Gray = factory or system specific; (REF) = For reference purposes only.

Diagnostic Mode (USED IN RATE TABLE 1 ONLY)

Location	Typical Value	Description
080	0.00	0.01 = See-Thru Mode and passes SMDR output to SYSTEM port. Readable data confirms SMDR baud rate match. Normal processing is disabled. Resetting the Prophet automatically sets this value to 0.00.
081	0.00	0.01 = Accepted Call Diagnostics. Call processing is normal. Resetting the Prophet automatically sets this value to 0.00. Location 080 must equal 0.00. <i>See Diagnostics format page 4-15.</i>
082	0.00	0.01 = Rejected Call Diagnostics. Call processing is normal. Resetting the Prophet automatically sets this value to 0.00. Location 080 must equal 0.00. <i>See Diagnostics format page 4-15.</i>
083	0.00	0.01 = Dropped Call Diagnostics. Call processing is normal. Resetting the Prophet automatically sets this value to 0.00. Location 080 must equal 0.00. <i>See Diagnostics format page 4-15.</i>
084	0.00	0.01 = Rejected Room Status/Revenue Center Call Diagnostics. Call processing is normal. Resetting the Prophet automatically sets this value to 0.00. Location 080 must equal 0.00.

Legend: White = dealer use. Gray = factory or system specific; (REF) = For reference purposes only.

PBX Operational Parameters (USED IN RATE TABLE 1 ONLY)

Location	Typical Value	Description
085	0.00	2-Line SMDR record (MARK II format). 0.00 = single line format (default)
094	0.00	Call Record Duration Type(0.00 = duration, 0.01 = start/end)
097	0.00	SMDR Time Out (clear buffer after each call). 0.00 = do not clear buffer (default)
100		Value of Start Character in Input Record (ASC II)
101		Value of Terminating Character in Input Record (ASC II)
102		Length of Minimum Call Record
103		Pointer: To Location of Call Record Test Character
104		Value of Call Record Test Character (ASCII)
105		Pointer: To Call Duration - Hours/Tens (if any)
106		Pointer: To Call Duration - Minutes/Hundreds (if any)
107		Pointer: To Call Duration - Minutes/Tens
108	***	Pointer: To Call Duration - Minutes/Tenths (if any)
109	***	Pointer: To Call Duration - Seconds/Tens (if any)
110		Pointer: To Start Time of Call
111		Pointer: To Beginning of Access Digits Field
112		Pointer: To End of Access Digits Field
113		Pointer: To Beginning of Dialed Number Field
114		Pointer: To End of Dialed Number Field
115		Pointer: To Time of Call Type
116		Pointer: To Duration - Thousands of Minutes
117		Pointer: To Beginning of Station Number Field
118		Pointer: To End of Station Number Field

PBX Operational Parameters cont'd (USED IN RATE TABLE 1 ONLY)

Location	Typical Value	Description
119		Value of Start Character for Pass-Through Message (ASC II)
120		Pointer: To Duration Start Time - Hours/Tens
121		Pointer: To Duration Start Time - Minutes/Tens
122		Pointer: To Duration Start Time - Seconds/Tens (if any)
123		Pointer: To Duration Start Time - Minutes/Tenths (if any)
124		Pointer: To Duration End Time - Hours/Tens
125		Pointer: To Duration End Time - Minutes/Tens
126		Pointer: To Duration End Time - Seconds/Tens (if any)
127		Pointer: To Duration End Time - Minutes/Tenths (if any)
128		Pointer: To Duration Start Time Type
129		Pointer: To Duration End Time Type
132		Value for 2nd call record test character (ASCII)
133		Pointer: To test character of call record to reject
134		Value of test character of call record to reject

PBX Operational Parameters cont'd (USED IN RATE TABLE 1 ONLY)

Location	Typical Value	Description (Since V1.0.8, values 140-179 should NOT be used for 10xxx absorption. Default setting = 0.00).
140	0.00	First dialed number check string: 1st digit (ASCII)
141	0.00	First dialed number check string: 2nd digit (ASCII)
142	0.00	First dialed number check string: 3rd digit (ASCII)
143	0.00	First dialed number check string: 4th digit (ASCII)
144	0.00	First dialed number check string: 5th digit (ASCII)
145	0.00	First dialed number exchange string: 1st digit (0=end)
146	0.00	First dialed number exchange string: 2nd digit (0=end)
147	0.00	First dialed number exchange string: 3rd digit (0=end)
148	0.00	First dialed number exchange string: 4th digit (0=end)
149	0.00	First dialed number exchange string: 5th digit (0=end)
150	0.00	Second dialed number check string: 1st digit (ASCII)
151	0.00	Second dialed number check string: 2nd digit (ASCII)
152	0.00	Second dialed number check string: 3rd digit (ASCII)
153	0.00	Second dialed number check string: 4th digit (ASCII)
154	0.00	Second dialed number check string: 5th digit (ASCII)
155	0.00	Second dialed number exchange string: 1st digit (0=end)
156	0.00	Second dialed number exchange string: 2nd digit (0=end)
157	0.00	Second dialed number exchange string: 3rd digit (0=end)
158	0.00	Second dialed number exchange string: 4th digit (0=end)
159	0.00	Second dialed number exchange string: 5th digit (0=end)
160	0.00	Third dialed number check string: 1st digit (ASCII)
161	0.00	Third dialed number check string: 2nd digit (ASCII)
162	0.00	Third dialed number check string: 3rd digit (ASCII)
163	0.00	Third dialed number check string: 4th digit (ASCII)
164	0.00	Third dialed number check string: 5th digit (ASCII)
165	0.00	Third dialed number exchange string: 1st digit (0=end)
166	0.00	Third dialed number exchange string: 2nd digit (0=end)
167	0.00	Third dialed number exchange string: 3rd digit (0=end)
168	0.00	Third dialed number exchange string: 4th digit (0=end)
169	0.00	Third dialed number exchange string: 5th digit (0=end)
170	0.00	Fourth dialed number check string: 1st digit (ASCII)
171	0.00	Fourth dialed number check string: 2nd digit (ASCII)
172	0.00	Fourth dialed number check string: 3rd digit (ASCII)
173	0.00	Fourth dialed number check string: 4th digit (ASCII)
174	0.00	Fourth dialed number check string: 5th digit (ASCII)
175	0.00	Fourth dialed number exchange string: 1st digit (0=end)
176	0.00	Fourth dialed number exchange string: 2nd digit (0=end)
177	0.00	Fourth dialed number exchange string: 3rd digit (0=end)
178	0.00	Fourth dialed number exchange string: 4th digit (0=end)
179	0.00	Fourth dialed number exchange string: 5th digit (0=end)

Legend: White = dealer use. Gray = factory or system specific; (REF) = For reference purposes only.

Pass Wake Up & Special Messages (USED IN RATE TABLE 1 ONLY)

Location	Typical Value	Description
130		Pointer: To 1st Message Test Character
131		Value of Message Test Character (ASCII)
180	0.00	Pointer: To 2nd message test character
181	0.00	Value of message test character (ASCII)
182	0.00	Pointer: To 3rd message test character
183	0.00	Value of message test character (ASCII)
184	0.00	Pointer: To check character
185	0.00	Value of check character (ASCII)
186	0.00	Value of exchange character (ASCII)

Legend: White = dealer use. Gray = factory or system specific; (REF) = For reference purposes only.

Telephone Command Reporting (USED IN RATE TABLE 1 ONLY)

Location	Typical Value	Description
190	0.02	Telephone access code: 1st numeric value (0.00-0.09)
191	0.00	Telephone access code: 2nd numeric value (0.00-0.09)
192	0.00	Telephone access code: 3rd numeric value (0.00-0.09) (access code shown = 200)
193	0.49	Value of 1st character for reporting extension (ASCII). <i>See Apx K for ASCII values</i>
194	0.55	Value of 2nd character for reporting extension (ASCII). <i>See Apx K for ASCII values</i>
195	0.48	Value of 3rd character for reporting extension (ASCII). <i>See Apx K for ASCII values</i>
196	0.48	Value of 4th character for reporting extension (ASCII). <i>See Apx K for ASCII values</i> (authorized <u>admin</u> extension shown = 1700=(0.49+0.55+0.48+0.48))

Legend: White = dealer use. Gray = factory or system specific; (REF) = For reference purposes only.

Unused Locations ((USED IN RATE TABLE 1 ONLY)

Location	Typical Value	Description
000	0.00	Unused.
038	0.00	Unused.
056-058	0.00	Unused. (In V1.0.8, 058 must equal 0.01)
135-139	0.00	Unused.
086	0.00	Unused.
099	0.00	Unused.

Legend: White = dealer use. Gray = factory or system specific; (REF) = For reference purposes only.

Common Area Code and Exchange Modifications (RATE TABLE SPECIFIC AS NOTED)

Location	Typical Value	Description
411	FLAT	Use in rate table 2 only. Type F to point at the value in 006 or S to point to the value in 037.
555	FLAT	Use in ALL rate tables. Type F to point at the value in 006 or S to point to the value in 037.
611	FLAT	Use in Rate table 2 only. Type F to point at the value in 006 or S to point to the value in 037.
800	DROP	Use in Rate table 1 only. Type D to Drop these calls with no charge.
900	***	Use in Rate table 1 only. Type the per min rate to charge. <i>See location 030 in System Parameters</i> to multiply this value by 100.
911	NO\$	Use in Rate table 2 only. Type N to flag this call with a NOT INITIALIZED message.
950	DROP	Use in Rate table 2 only (OCC access). Type D to Drop these calls with no charge.
976	***	Use in Rate tables 2-J. Type the per min rate to charge. <i>See location 030 in System Parameters</i> to multiply this value by 100.

Legend: White = dealer use. Gray = factory or system specific; (REF) = For reference purposes only.

HOSPITALITY PRICING

Cost Computation

- A. Daily weekday initial minute rate
(NPA/NXX from table) \$ _____
- B. Weekday (001,002,003) or
weekend (021,022,023) multiplier % _____
- C. Actual initial minute rate
(based on time & day of call **A x B**) \$ _____
- D. Overtime multiplier for weekday (004) or
weekend (024) % _____
- E. Overtime per minute rate (**C x D**) \$ _____
- F. Total overtime minutes
(**length** of call **minus** the **initial minute**) _____
- G. Total overtime cost (**E x F**) \$ _____
- H. *Subtotal* (**C + G**) \$ _____
- I. Tax multiplier (010) % _____
- J. Tax charge (**H x I**) \$ _____
- K. ***Total Admin Cost*** (**H + J**) \$ _____

Profit Computation

- L. Profit multiplier (009) % _____
- M. Profit markup (**K x L**) \$ _____
- N. Surcharge (005 or 025 plus 036) \$ _____
- O. ***Profit Added to Guest Calls*** (**M + N**) \$ _____

Cost Plus Profit

- P. ***Total Billed to Guest Calls*** (**K + O**) \$ _____

Special Pricing

Area Codes and exchanges (NPA / NXX) containing a value of:

FLAT1	price at the value set in location 006 (see note).
FLAT2	price at the value set in location 037 (see note).
DROP	calls dropped.
NO\$	are inactive and generate the message.

THE RATE OF THE DIALED NUMBER IN THE FOLLOWING RECORD WAS NOT INITIALIZED

RATE? Are the result of new area codes or exchanges received on in the SMDR. These values are easily displayed from within a rate table by typing <CTRL> R. Correct these rate table locations by entering the initial minute price in the area code/exchange location. Locations with the value RATE? print the message below when a call is placed to that number. *See location 032 Appendix H.*

**NO PRICE FOR FOLLOWING CALL.
CALL FOR SERVICE DURING NORMAL BUSINESS HOURS.**

Exchanges within the HOME area code are priced out of rate table 2.
NOTE: Administrative extensions use location 016 for flat rate pricing.

Refer to the topic RATE TABLE PROGRAMMING in chapter 3 and appendixes C and H for additional details.

Operation with a Property Management System (PMS)

When in the PMS mode of operation, calls are collected in an input buffer then passed immediately to the PMS. A handshaking occurs between the PMS and Prophet system to ensure proper handoff of the call information. In the event that call information is not accepted by the PMS, the buffer will overflow to a backup serial printer connected to the SMDR (J2) port. Input buffer size is determined by the setting of location 091 in rate table 1.

PMS mode is activated by setting the DATA OUTPUT OPTION to any ODD value (refer to the topic DATA OUTPUT OPTIONS in Chapter 1). <ESC> G toggles PMS mode ON and OFF. Toggle PMS mode OFF before attempting to programming.

CAUTION: The Prophet system will refuse to respond to programming commands if call records are in the input buffer and have not been accepted by the PMS. If you are unable to obtain a Main Menu, use <CTRL> "f" (or the ASCII value programmed into location 063 of rate table 1) repeatedly to clear calls from the buffer. The records will print on your programming terminal in a PMS format.

Toggle PMS mode OFF before attempting to program the Prophet system.

NOTE: See Appendix E for PMS cabling diagrams.

Sample PMS / Prophet-H Protocol

The sequence of events described below provides a sample PMS protocol scenario, and demonstrates how various settings of the PMS parameters in Rate Table 1 control the hand shaking between PMS and Prophet-H.

Rate Table 1

Location	Sequence of Events
060 = 0.01	PMS record type is set to expanded format.
061 = 0.01	Prophet is set to send an attention character to the PMS before sending the call record.
062 = 0.05	Attention character that Prophet will send is ASCII 005 (ENQ, enquiry character).
063 = 0.06	Prophet waits for an ASCII 006 (ACK, acknowledgement character) from the PMS indicating that it is ready to receive the call record.
069 = 0.07	Prophet will wait 7 seconds for the PMS to respond and then send the attention character again.
066 = 0.02	If the PMS responds within the 7 seconds allowed, the
067 = 0.03	Prophet will send an ASCII 002 (STX, start of text character), followed by the priced call record and ended with the ASCII 003 (ETX, end of text character). STX and ETX are used to frame the call record for the PMS.
064 = 0.06	Prophet waits for an ASCII 006 (ACK, acknowledgement character) from the PMS indicating that the call record was received and accepted.
068 = 0.11	Prophet will wait 11 seconds for the PMS to respond, if no response is received, the Prophet will start the process over again by sending the ASCII 005 (ENQ, enquiry character).

- 065 = 0.21** If the PMS responds within the 11 seconds allowed with an ASCII 021 (NAK, non-acknowledgement character) indicating that the call record was received but not accepted, Prophet will immediately re-send the priced call record with the STX and ETX framing.
- 073 = 0.03** If the PMS responds to the ENQ character causing the Prophet to send the priced call record, but does respond again to accept the call record, Prophet will repeat the entire cycle up to 3 times for a total of 4 records (1 original plus 3 retries) and then send the priced call record to the backup printer (if the OUTPUT OPTION is set to support the backup printer).
- 091 = 0.07** The Prophet call record input buffer is set to store 7 pages but can store up to 69 pages (approximately 200 call records) while waiting for the PMS to respond to the ENQ character. Call records in excess of this capacity will overflow to the backup printer on a first in first out (FIFO) basis.

NOTE: Settings for PMS's vary widely. Some call records may be sent immediately without the use of an attention character to the PMS. Other call records may not require framing characters. Refer to the default parameters set for the PMS installed when examining PMS protocol.

PMS simulation may be performed using a Programming Terminal or by using an IBM compatible PC and holding down the <ALT> key while typing the 3 digit ASCII value on the number pad. The response will be sent once the <ALT> key is released. Refer to the ASCII code chart in Appendix K for ASCII value cross reference.

Section K

Appendix

ASCII Code Chart

ASCII Char.	<CTRL> Sequence	ASCII Value	ASCII Code	ASCII Value	ASCII Code	ASCII Value
NUL		00	RS	30	<	60
SOH	<CTRL> a	01	US	31	=	61
STX	<CTRL> b	02	SPACE	32	>	62
ETX	<CTRL> c	03	!	33	?	63
EOT	<CTRL> d	04	"	34	@	64
ENQ	<CTRL> e	05	#	35	A	65
ACK	<CTRL> f	06	\$	36	B	66
BEL	<CTRL> g	07	%	37	C	67
BS	<CTRL> h	08	&	38	D	68
HT	<CTRL> i	09	'	39	E	69
LF	<CTRL> j	10		40	F	70
VT	<CTRL> k	11		41	G	71
FF	<CTRL> l	12	*	42	H	72
CR	<CTRL> m	13	+	43	I	73
SO	<CTRL> n	14	,	44	J	74
SI	<CTRL> o	15	-	45	K	75
DLE	<CTRL> p	16	.	46	L	76
DC1	<CTRL> q	17	/	47	M	77
DC2	<CTRL> r	18	0	48	N	78
DC3	<CTRL> s	19	1	49	O	79
DC4	<CTRL> t	20	2	50	P	80
NAK	<CTRL> u	21	3	51	Q	81
SYN	<CTRL> v	22	4	52	R	82
ETB	<CTRL> w	23	5	53	S	83
CAN	<CTRL> x	24	6	54	T	84
EM	<CTRL> y	25	7	55	U	85
SUB	<CTRL> z	26	8	56	V	86
ESC		27	9	57	W	87
FS		28	:	58	X	88
GS		29	;	59	Y	89
					Z	90

Mnemonic	Function	Mnemonic	Function	Mnemonic	Function
ACK	Acknowledge	EOT	End of Text	NUL	Null
BEL	Bell	ESC	Escape	RS	Record Separator
BS	Back Space	ETB	End of Transmission	SI	Shift In
CAN	Cancel Acknowledge	ETX	End of Text	SO	Shift Out
CR	Carriage Return	FF	Form Feed	SP	Space
DC	Device Control	FS	File Separator	STX	Start of Text
DEL	Delete	GS	Group Separator	SUB	Substitute
DLE	Data Link Escape	HT	Horizontal Tab	SYN	Synchronous Idle
EM	End of Medium	LF	Line Feed	US	Unit Separator
ENQ	Enquiry	NAK	Negative Acknowledge	VT	Vertical Tab

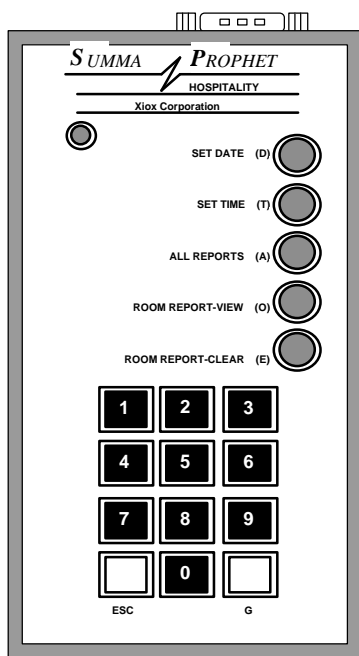
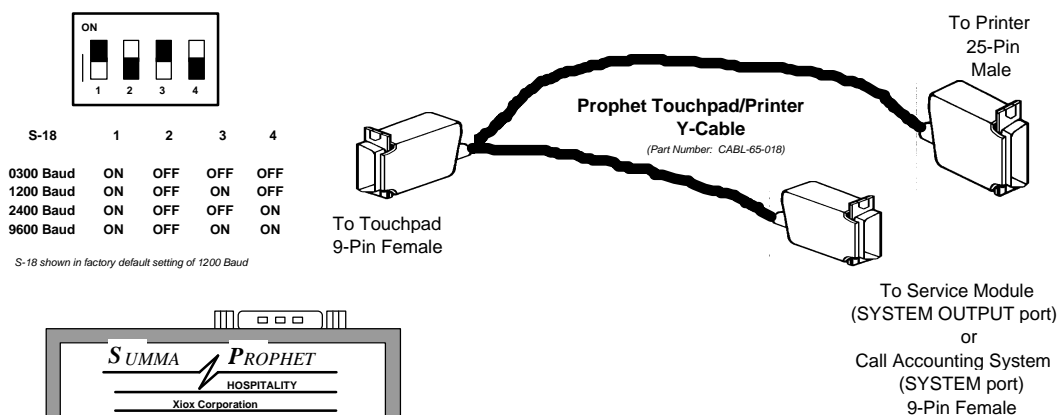
Prophet-H Touchpad

Installation

The Prophet-H Touchpad communicates with the SYSTEM port of the Prophet call accounting system.

Installation is accomplished by matching the labeling on the Touchpad/Printer "Y" cable to the TOUCHPAD, PRINTER and either the SYSTEM port of the Prophet call accounting system or SYSTEM OUTPUT port of the Service Module (if in use).

Ensure the Prophet-H and Touchpad baud rates match.



Operation

To change the system date, time or request management reports or toggle PMS mode, sign-on to the system by first pressing the <ESC> key and then enter the command for the desired function (refer to the Command Listing on the reverse side of this sheet).

System operation is covered in detail within the PROPHET-H manuals provided with your system.

LISTING OF AVAILABLE COMMANDS

COMMAND	DESCRIPTION
<D>mmddyyw	Set date & day of the week <D> = the main menu date selection mm = month dd = day yy = year w = day of the week (Sun= 1, Sat=7)
<T>hhmm	Set the time of day <T> = the main menu time selection hh = hour (in 24 hour format) mm = minutes
<A> <1>	Daily Profit Report
<A> <2> <1>	Month to Date Report & clear totals
<A> <2> <2>	Month to Date Report & do not clear totals
<A> <3> <1>	Administrative Call Report & clear totals
<A> <3> <2>	Administrative Call Report & do not clear totals
<G>	toggles PMS mode
<O>rrrr	Extension/Room Report & do not clear <O> = Observe room rrrr = Extension/Room number (0000 for all)
<E>rrrr	Extension/Room Report & clear <E> = Empty room rrrr = Extension/Room number (0000 for all)

NOTE: The <E> & <O> commands for requesting extension/room reports may be entered without signing on to the system.

Prophet-H Telephone Reporting

Operation

The Prophet-H Telephone commands are dialed digits passed out the SMDR port of the telephone switch. The telephone switch must be programmed to accept a three digit access code (default = 200) as both a valid area code and exchange. The digits following the access code represent the report requested.

Example - dialing the number 1(200)410 would be seen by the telephone switch as exchange 200, the 410 tells the Prophet-H to generate a " Daily Profit Report" .

Authorized extensions used for report generation include all extensions listed in the Administration table (if 0000 is programmed as the authorized extension). Any other number (0001 - 9999) represents the single authorized administrative extension to be used for report generation. Refer to Rate Table positions 190 - 196 in Appendix - H.

The SYSTEM GRACE PERIOD setting of the Prophet-H does not apply to telephone commands. The SMDR grace period of the telephone switch must be set to the minimum grace period to ensure that telephone commands are passed out the SMDR port without requiring a lengthy " OFF HOOK " period.

Telephone commands

Command	Function
[] [] [] 1mmddyyw	mm=month dd=day yy=year w=day of week (Sun=1, Sat=7)
[] [] [] 2hhmm	hh=hour (in 24 hour format) mm=minutes
[] [] [] 3aaaa	room report & clear from memory aaaa=room number (0000 for all)
[] [] [] 410	daily profit report
[] [] [] 421	month to date report & clear
[] [] [] 422	month to date report & do not clear
[] [] [] 431	administrative call report & clear
[] [] [] 432	administrative call report & do not clear
[] [] [] 5aaaa	room report & do not clear aaaa=room number (0000 for all)
[] [] [] 00	cancel an all rooms report

NOTE: [] [] [] represents the three digit access code (default = 200).

Technical Notes Prophet-H V2.3

A complete list of operational values are in Appendix H of the Prophet-H Installation and Maintenance Manual.

Feature List V2.3	Location
<p>Intrastate Call Flag</p> <p>Setting location 078 in rate table 1 to 0.02 causes calls which price in a rate table type 2 or 6 to be output to the PMS with an “I” flag to indicate an in-state call. The local call flag “L” overrides this feature if location 008 in rate table 2 is used and the call is a local call. International calls are still flagged with “F” as with 078 = 0.01.</p> <p>Rate table type 6 is a new rate table type. This table type behaves exactly like a rate table type 2 for call accumulation and reporting. However, when a call prices in a rate table of type 6, pricing begins at the start of the dialed number (the NPA) rather than at position 4 (the NXX). This allows the use of a single rate table to handle all in-state area codes which are not expanded into their own rate table.</p> <p>The following method is used to build a set of rate tables to use this feature:</p> <ul style="list-style-type: none"> Rate table 1 is copied to an unused rate table with the table type of the new table set to 6. All NPA locations in rate table 1 that are in-state NPAs are set to jump to the new rate table. 	078
<p>Long Duration Calls (Internet Pricing)</p> <p>Location 038 in each rate table sets the delay time in minutes after which per minute charges are added to flat rate calls in that rate table. After the delay time, an additional per minute charge specified in location 057 of the rate table is added to the price.</p> <p>For example, to charge \$0.50 for the first 10 minutes of a rate table 2 call and \$0.15 per minute thereafter, set location 006 in table 2 to 0.50, location 038 in table 2 to 0.10, and location 057 in table 2 to 0.15.</p>	038 057
<p>Long Duration 0+ Calls</p> <p>Location 100 in rate table 2 sets the delay time in minutes for 0+ calls and location 101 in table 2 sets the per-minute charge to be applied after the delay time. If the OPR SURCHARGE on the system menu is set to 0.00, then 0+ calls will be dropped unless the overtime charge applies. As before, setting the OPR SURCHARGE to 0.01 sets the flat price to zero but does not drop the call.</p> <p>For example, to charge \$0.50 for the first 10 minutes of 0+ calls and \$0.15 per minute thereafter, set OPR SURCHARGE to 0.50, location 100 in table 2 to 0.10, and location 101 in table 2 to 0.15.</p> <p>Note that this is the first use of rate table 2 locations for general programming purposes.</p>	100 101

Technical Notes Prophet-H V2.2

A complete list of operational values are in Appendix H of the Prophet-H Installation and Maintenance Manual.

Feature List V2.2	Location																																													
Zero Priced Local Calls This feature assigns a zero flat rate price to calls using Table 2 Location 008 when it is set to 0.01. If Location 008's value is set to 0.02 - 2.40 the price will be \$0.02 to \$2.40 flat rate and 0.00 will cause the call to be processed in the exchange locations of Rate Table 2.	008																																													
Increased Administration Table Size For the <i>Prophet-H10 only</i> , this feature will increase the size of the administration table to 1000 extensions. To program the administration extensions, set Table 1 Location 033 to 0.02 and enter the extensions through the <i>Prophet-H10 Main Menu item 'C'</i> (cross-reference).	033																																													
Dialed Digit Count Analysis This feature is useful in applications where the 1+ is stripped from the dialed number received by the Prophet-H. Location 056, when not set to 0.00, specifies the maximum number of digits for a home area code call (Table 2). Calls with digits in excess of the value of 056 will start pricing in Table 1. Typical settings for non-1+ dialing would be 0.07, 0.08 & 0.09. Both 1+ and non1+ will be processed. example: Set 056 = 0.09 then all calls, 10 digits or more, will go to Table 1 for initial processing. Default for 056 = 0.00 when digit count not required.	056																																													
Improved 800 & 888 Processing If 800-555 or 888-555 are received by the Prophet-H, it will now treat these as 800 or 888 calls rather than 555's.	800 888																																													
Improved Rate Table Initialization The Prophet-H system permits initialization of rate table locations 000- 199 and 200 - 999. The DIP switch SW1, poles 4, 5 & 6, can be set to allow initialization to specific rate tables for DROP, 0.00, NOS and Rate Table Flooding. Set the 8-pole DIP switch SW1 to the required setting, enter the command string: <ESC> <Shift-#> <Ctrl-I> <?> (where ? is the table 1-9, J, C or X) and the system will alter the table as indicated. With the improved V2.2, when Rate Table Flooding is required then put the required cost value in Location 200 of the Rate Table, set the DIP switches for <i>copy location 200</i> and use the above command string. The Rate Table Locations 201 - 999 will be set to the specified rate value in Location 200.																																														
<div>DIP Switch 1 Table Initialization Settings</div> <table><tr><th>SW1-4</th><th>SW1-5</th><th>SW1-6</th><th>Locations 000-199</th><th>Locations 200-999</th></tr><tr><td>on</td><td>on</td><td>on</td><td>0.00</td><td>NOS</td></tr><tr><td>off</td><td>on</td><td>on</td><td>0.00</td><td>0.00</td></tr><tr><td>on</td><td>off</td><td>on</td><td>changed</td><td>NOS</td></tr><tr><td>off</td><td>off</td><td>on</td><td>unchanged</td><td>0.00</td></tr><tr><td>on</td><td>on</td><td>off</td><td>0.00</td><td>DROP</td></tr><tr><td>off</td><td>on</td><td>off</td><td>0.00</td><td>copy location 200</td></tr><tr><td>on</td><td>off</td><td>off</td><td>unchanged</td><td>DROP</td></tr><tr><td>off</td><td>off</td><td>off</td><td>unchanged</td><td>copy location 200</td></tr></table>		SW1-4	SW1-5	SW1-6	Locations 000-199	Locations 200-999	on	on	on	0.00	NOS	off	on	on	0.00	0.00	on	off	on	changed	NOS	off	off	on	unchanged	0.00	on	on	off	0.00	DROP	off	on	off	0.00	copy location 200	on	off	off	unchanged	DROP	off	off	off	unchanged	copy location 200
SW1-4	SW1-5	SW1-6	Locations 000-199	Locations 200-999																																										
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Technical Notes Prophet-H V2.1

A complete list of operational values are in Appendix H of the Prophet-H V2.1 Installation and Maintenance Manual. For assistance, contact Xiox Product Support.

Feature List V2.1	Location
900 and 976 Pricing 900 and 976 calls can be interpreted as dollar amounts rather than cents. Set 030 = 0.01 to enable feature. If 900 or 976 equal 0.05, their value will be interrupted as \$5.00 1st minute base rate rather than \$0.05.	030
Fill Incomplete Dialed Numbers Fills domestic direct dialed numbers that are missing digits with "9's". The filling is based on the analysis of the call so that the fill is to 7 or 10 digits as appropriate. This compensates for phone systems that do not output enough dialed digits (especially with 10xxx and 101xxxx). This feature does not affect the pricing of the call, only its appearance when printed or sent to the PMS. Set 031 = 0.01 to enable feature.	031
Rate Update Tracking This automatically places flags in the rate tables whenever new area codes and exchanges are dialed and allows a replacement message. If 032 = 0.01 the message will display the message: "NO PRICE FOR FOLLOWING CALL. CALL FOR SERVICE DURING NORMAL BUSINESS HOURS." If 032 = 0.00 the flags will be set in the rate table and the message will display: "THE RATE OF THE DIALED NUMBER IN THE FOLLOWING RECORD WAS NOT INITIALIZED". With either message the servicing technician can easily identify rate table programming requirements and make appropriate updates or corrections.	032
Improved Call Analysis During call analysis, a call record is flagged as local if it is not 1+. This flag is useful in areas that required 1+ for toll calls. In such areas, the absence of 1+ indicates that the call record is for a free local call. Setting Rate Table 1 location 092 = 0.00 and Rate Table 2 location 008 > 0.00 (range 0.01 - 2.40) will flat rate the local calls. This is convenient in areas where 1+ always means toll and non 1+ always means local. If the dialing plan permits 7 digit toll calling or 1+10 digit local calling , then set 092 = 0.01, 008 = 0.00, and create either a local table to handle local calls or flat-rate local prefixes. A local table must be set up to correctly produce the "L" PMS flag (be sure to include the local table type 007 = 0.04). If the dialing plan area allows 7 and 10 digit local calling without 1+, the dialed number will look at the NPA value in Rate Table 2. The NPA value in Rate Table 2 should be redirected by a T-pointer to NPA Rate Table 1 (T1) where it will find either another T-pointer for the correct rate table or a price. T-pointers allow movement from one table to another using the format Tx, where "x" is the table to next process the call.	008, 092

Feature List V2.1	Location
Improved Diagnostic Call Analysis Previously, when PMS mode was disabled, the diagnostic reject function (location-082) did not provide a diagnostic trace, starting in V2.1 the diagnostic trace will be provided.	082
Special Trunk Access Group Pass Through (1st implemented in V1.1) This feature allows all calls with a special single digit trunk access group to be passed through priced at \$0.00. The main application for this feature is customized room status reporting where a dummy trunk access is used for room status calls and the call record is then passed through to the PMS with a "S" call type and to the printer. Set 187 to the value of the access code, i.e., if dialed trunk access is 5, then $187 = 0.05$	187
Auto Monthly Report The monthly audit report can be set to run automatically on the first of the month following the nightly audit report. This feature only works if the automatic nightly audit report is enabled in the System Data Menu. Note that the nightly audit report time should be set to 00:01 rather than 23:59, otherwise the monthly report will include the calls for the first day of the month. Set 188 = 0.01 to enables feature.	188
Posting of Zero Priced Calls The feature permits or inhibits zero priced call posting to the PMS. This does not affect the storing and printing of zero priced calls. 189 to 0.00 will allow zero-priced call posting, $189 = 0.01$ will inhibit posting.	189
SMDR Time-out (No Calls) Alarm This feature notifies the user of the possible failure of the PBX interface. When no valid calls have been received from the PBX for a specified number of hours, a message is printed on the printer every hour along with a 10 second alarm. NO GUEST CALL REVENUE FOR XX HOURS. CALL FOR SERVICE mm/dd/yy hh:mm The alarm does not monitor or accumulate time between the hours of midnight and 7:00am. Set $197 = 0.XX$, where X is the number of hours. $197 = 0.00$ disables and is the default.	197
PMS Attention Time-out and Alarm This feature allows the PMS interface to time-out after a specified time and notifies the user when the interface appears to be down. Normal operation is automatically restored when the PMS is back on line. Call records that are dumped to the backup printer are preceded by the message "FOLLOWING CALL NOT POSTED TO GUEST FOLIO". If the PMS has not responded after the number of hours specified in location 199, the alarm sounds for 2 seconds and the following message "CALLS NOT POSTING TO GUEST FOLIOS. CALL FOR SERVICE" is printed. 198 = 0.01 enables feature, 199 = 0.XX where X equals the specified hours (01 - 12).	198 & 199
Improved 411, 911 and 555 Handling 1N11, N11, 555, 1555, and 1NPA555 calls are exempt from system grace. Also, 1411 and 411 will now process the same for local call pricing when using Table-2 location 008.	Tables 1 and 2

Feature List V2.1	Location
<p>Zero Priced Operator Assist Calls</p> <p>Previously, 0+ priced operator assisted calls in the System Data Menu were dropped when set to 0.00, and would flat-rate the call record when set with the range 0.01 to 2.40. Now, if the operator assist rate is set to 0.01, operator-assisted calls will zero price rather than charge a penny price instead of being dropped. .</p> <p>To set the System Data Menu's Operator Charge:</p> <p><ESC> <S> <O> <0.00> equals DROP (drop the call record)</p> <p><ESC> <S> <O> <0.01> equals \$0.00 (zero price the call record)</p> <p><ESC> <S> <O> <x.xx> "x" equals the range \$0.02 - 2.40 (flat price the call record) This allows the tracking of free operator assist calls both in call storage and on the PMS.</p>	System Data Menu
<p>Selective Rate Table Viewing</p> <p>When viewing a rate table, the following are now allowed in addition to the "Y" (to print view all) function:</p> <p>ctrl-Y view all locations except NO\$</p> <p>ctrl-R view only locations with RATE?</p> <p>ctrl-F view only locations with FLAT</p> <p>ctrl-S view only locations with FLAT2</p> <p>ctrl-N view only locations with NO\$</p> <p>ctrl-D view only locations with DROP</p> <p>ctrl-T view only locations with T vectors</p> <p>Also, the rate tables will now display 5 entries per line rather than the previous 4, 4, and 2 format.</p>	None
<p>Extension Summary Report</p> <p>The new Extension Summary Report A4 (or 44 using the telephone reporting) prints a summary of report for all extensions without the call details. This summary report is the same as the totals line of the call detail report for each extension. With a terminal or touchpad, use <ESC> <A> <4>, or with phone command reporting use the 3 digit command prefix and 44 without the call detail.</p>	None
<p>Automatic 911 Recognition</p> <p>When the Prophet-H V2.0 receives a 911 call from the phone system, an alarm sounds for 20 seconds and the message displays: "911 DIALED FROM ROOM XXXX" is printed to the SYSTEM and/or SMDR ports."</p>	None
<p>Imbedded 10xxx and 101xxxx Stripping</p> <p>The system now automatically strips 10xxx and 101xxxx from dialed numbers. Since it is handled automatically in the firmware, the compare and convert locations 140 - 179 of Rate Table-1 should not be set to mask equal access digits. Their default value is 0.00 .</p>	None
<p>Improved Reset Feature</p> <p>Pressing the reset button exactly 5 times in succession, with less than 1 second between each press, causes the system to perform a cold reset (similar to the <ESC> <9> <1>).</p> <p>The message "COLD RESET" will print after the Prophet-H system resets.</p>	None