

AeGIS NPB7000 Series

Installation and Programming Manual



December 01, 2001



Pach & Company
www.pach-co.com

941 Calle Negocio
San Clemente, CA 92673

Phone: 1-888-678-7224
Fax: 949-498-6879

TABLE OF CONTENTS

Limitations of Liability

Chapter 1. Getting Started	1
1.1. Introduction	1
1.2. System Description, Specifications and Accessories	1
1.3. Unpacking the System	3
1.4. Warranty	3
Chapter 2. Installation	4
2.1. System's Wiring	4
2.2. Testing and Verifying the Installation	9
Chapter 3. Programming	11
Programming Function Codes	11
*	11
#	11
00 Replace System Master Code	11
01 Program a New Tenant	11
02 Modify an Existing Tenant Directory	13
03 Delete an Existing Tenant Directory	14
04 Clear All Tenants Directory	14
05 Manual Lock (open) or Unlock (Close) Door	14
06 Selecting Directory Digits	15
10 Change the Welcome Screen	15
46 System Information	16
50 Clear the Memory to Factory Default	16
70 Change Talk Time	16
71 Change Door Open Interval	17
72 Change Lock Out Count	17
75 Turn On or Off Key Press Beep	17
76 Turn On or Off Speaker Beep	17
77 Enable or Disable Remote Access	18
78 View Directory by Name	18
Chapter 4. System's Operation	19
How to View the Tenant Name	19
Distinctive Ringing	19
How to Use the Built-in Call Waiting Feature	20
How to Use the Optional Doorman or Manager Phone.....	20
How to Extend the Talk Time	20
How to Provide Remote Access	20
How to Disable Remote Access	20
How to Call to a Voice Mail or Extension Number	20
How to Use the 4-Digit Access Code to Unlock the Door	20
How to Adjust the Speaker and Microphone Volume	21
How to Adjust the LCD Display	21
How to Adjust the Pulse Sensitivity	21
How to Check the Number of Tenants Programmed in the System	21
Chapter 5. Trouble Shooting Guide	22
General FCC Requirements	25
Quick Guide	27

LIMITATIONS OF LIABILITY

This manual is subject to change without notice.

Pach and Company is not liable for any errors that might occur from use of this document, nor is any commitment to update the information herein implied.

Pach and Company does not assume any liability for any damages, which may arise in installation or use of the AeGIS NPB7000 Series. Pach and Company does not assume liability for any incompatibility between the AeGIS NPB7000 Series and users devices.

Pach & Company reserves the right to make changes without prior notice to any products in order to improve reliability, function or design.

Chapter 1

GETTING STARTED

1.1 Introduction

Pach & Company thanks and congratulates you on the purchase of your AeGIS NPB7000 Series Telephone Access Control Systems. The AeGIS NPB7000 Series consists of Main Lobby Control Panel and Main Relay Control Panel. See ordering cutsheets for more detail.

The manual is designed to guide you through the proper programming and use of the AeGIS NPB7000 Series. It is important for you to read and follow the manual completely.

The Aegis NPB7000 Series comes with two years warranty, but we are so confident in our product and our dealer's ability to install them properly, we will include lightning strikes in our two years warranty if Pach and Company surge protector (ASP1) is installed with the systems.

1.2 System Description, Specifications and Accessories

AeGIS NPB7000 Series utilizes microprocessor technology to provide security as well as convenience to you. It is designed for residential and commercial buildings, military and government sites, industrial facilities, or any location where access control is required. It is non subscriber telephone entry system and connects to the public telephone network. Authorization for access control is through the telephone line, or with the tenant's own access code, which is entered on the system keypad. The tenants MUST have a touch tone phone to allow remote visitor access.

The system parameters and tenants data will be entered via the keypad and the LCD provides easy display. EEPROM technology is used on AeGIS NPB7000 series. The tenant database will not be lost during a power failure.

Standard features:

- Program and store the tenant's name, directory code, telephone number and personal access code.
- Unlocking door or gate remotely by the tenant using his or her telephone keypad.
- Unlocking door or gate by the tenant using his or her own private access code.
- Built-in back-light LCD directory, Postal Switch.
- Recess keypad with built-in night lights.
- Distinctive ringing and call waiting.
- Programmable features:
 - 2, 3 or 4 Digit Directory Code
 - Lock Out Count
 - Manual Unlock-Auto Countdown Re-lock.
 - 4 Digit Unit master Code
 - Open Interval
 - Talk Time

Technical Specifications:

Power Input: 12 VAC 40 VA (supplied) or 12 VDC 40VA UL Listed Transformer

Current Consumption: **AeGIS 7000NC Main Lobby Control Panel** 500mA idle, 700mA operation.
MS79xxx Main Relay Control Panel 50mA Idle, 680 MA operation.
MX79xxx Expanded Relay Panel 50mA Idle, 680 MA operation.

Emergency Battery: 12Vdc, 4Ahr rechargeable (not supplied)

Telephone Line: Standard voice grade RJ11 jack.

Night Light: 14V 0.080A 15,000 Average life hours.

Operating Environment: Temp. 32°F to +140°F Relative Humidity 0% to 95% non-condensing.

* Heater Pad (AHP5) is required if the ambient temperature is below 32°F.

Relay Output: Form C Dry Contact 120 VAC 10A/ 24VDC 10A/ 250VAC 7A

Memory Type: EEPROM

Tone Detection: Crystal controlled, capable of detecting short bursts 80 ms

Mounting: Main Lobby Control Panel Surface or Full-Flush, outdoor or indoor.
Mail Relay Control Panel and Expanded Relay Panel Surface, indoor.

Construction: Main Lobby Control Panel - 16 gauge cold rolled steel back box and brushed stainless steel or brushed brass plating faceplate.

Main Relay Control Panel and Expanded Relay Panel - 16 gauge cold rolled steel box with enamel finished.

Dimensions Main Lobby Control Panel (HWD):

10-3/4" x 8-1/2" x 3-1/8" or 27.3 Cm x 21.6 Cm x 7.9 Cm (Surface Mount)

10-13/16 x 8-3/8 x 2-7/16" or 26.2 Cm x 21.3 Cm x 6.2 Cm (Full-flush)

Dimensions Main Relay Control Panel and Expanded Relay Panel (HWD):

MS79012-48 and MX79012-48 16-1/6" x 14-1/6" x 3-5/8" or 40.8 Cm x 35.7 Cm x 9.2 Cm

MS79060-120 and MX79060-120 23" x 12" x 3-5/8" or 58.4 Cm x 30.5 Cm x 9.2 Cm

Shipping: 38 lbs. - 70 lbs or 17.3 kg - 27.3 kg or Approximate.

Specifications subject to change without prior notice

Accessories and Replacement Parts:

Pach and Company Part Number	Description
FFM7	Full flush mounting ring
ASP1	AC and Telephone Surge Protector
AHP5	Heater pad with Thermostat
APM1	AeGIS Pedestal Mounting Post for car and pedestrian
APM2	AeGIS Pedestal Mounting Post for semi-truck, car and pedestrian
APM3	AeGIS Pedestal Mounting Post for semi-truck.
AP7	Adapter plate for APM1, APM2, and APM3
XMFR	Power Transformer
AVP7	AeGIS Video Package
AVP7C	AeGIS Video Package (Color)
AVPX	AeGIS Video Package Power Transformer
AKYS	AeGIS key Sets (2 keys per set)
NPB7MAN	AeGIS NPB7000 Series Installation and program manual
ABAT1	AeGIS 12 VDC 4.5 Ahr battery backup
ABAT2	AeGIS 12 VDC 1.3 Ahr battery backup
12SB79	12 tenant or station telephone line card
SEC79	120 tenant or station expansion board
MCB79	Master Controller board
RJ71X-12	12 telephone station terminal connector block
RJ71X-24	24 telephone station terminal connector block
MRC7948	48 tenant main relay cabinet (empty)
MRC79120	120 tenant main relay cabinet (empty)
TCC	12 tenant Telephone Station Connector Cable

1.3 Unpacking the System

After you unpacked the package, check the serial number on the printed circuit board, cabinet and warranty card, they must match. If they do not match, please contact Pach and Company toll free number at (888) 678-7224. All the items listed below come with the AeGIS NPB7000 Series. Some of the parts may not be listed below. If you have missing items, please contact your distributor or Pach and Company at (888) 678-7224.

- AeGIS 7000NC System (7025NC, 7050NC, 7100NC, 7150NC, 7200NC or 7250NC).
- MS79xxx and or MX79xxx (xxx is the model number)
- Two- XMFR (Power Transformer, 12VAC 40VA).
- 2-pin terminal connector (inside the Main Lobby Control Panel)
- 4-pin terminal connector (inside the Main Lobby Control Panel).
- 5-pin terminal connector (inside the Main Lobby Control Panel).
- 5-pin terminal connector (inside the Main Relay Control Panel).
- 6-pin terminal connector (inside the Main Relay Control Panel).
- Two - Key sets (2 keys per set).
- RJ-11 adapter (inside the AeGIS 7000NC system).
- RJ71X-12 and or RJ71X-24 telephone station connector block.
- Telephone Station Connector Cable(s), quantity depends on number of tenant.
- Owners Manual.
- Warranty Card with unit's serial number.

1.4 Warranty

The AeGIS 7000 Series come with **two (2) years warranty for parts and labor**. We will include lightning strikes in our two years warranty if our ASP1 surge protector is installed with the systems. If you use other than Pach and Company ASP1 Surge Protector, you are responsible to claim the damages to the surge protector manufacturer. The above warranties are subject to the following conditions.

- The serial number on the printed circuit board must match the serial number on the cabinet.
- The system's failure is not caused by vandalism, improper installation, misuse or abuse.
- Physically damaged product is not acceptable for repair or exchange within or after warranty.
- The warranty will be void and null if the product has been repaired or modified by unauthorized party without authorization of Pach and Company Technical Department.
- If for some reason your system cannot be repaired, Pach and Company will replace it with an identical product of equal value.
- You must obtain a Return Merchandise Authorization (RMA) number from Pach and Company Technical Department before you can send back the product to factory for repair.
- You are responsible for all transportation and insurance charges for the products shipped to the Pach and Company repair center.
- Pach & Company will not be responsible for any labor cost to disconnect and reinstall the system(s).

Chapter 2 INSTALLATION

2.1 System's Wiring

A proper installation of the AeGIS system is very essential. You MUST follow the installation procedures, block diagrams and installation requirements as specified in this chapter.

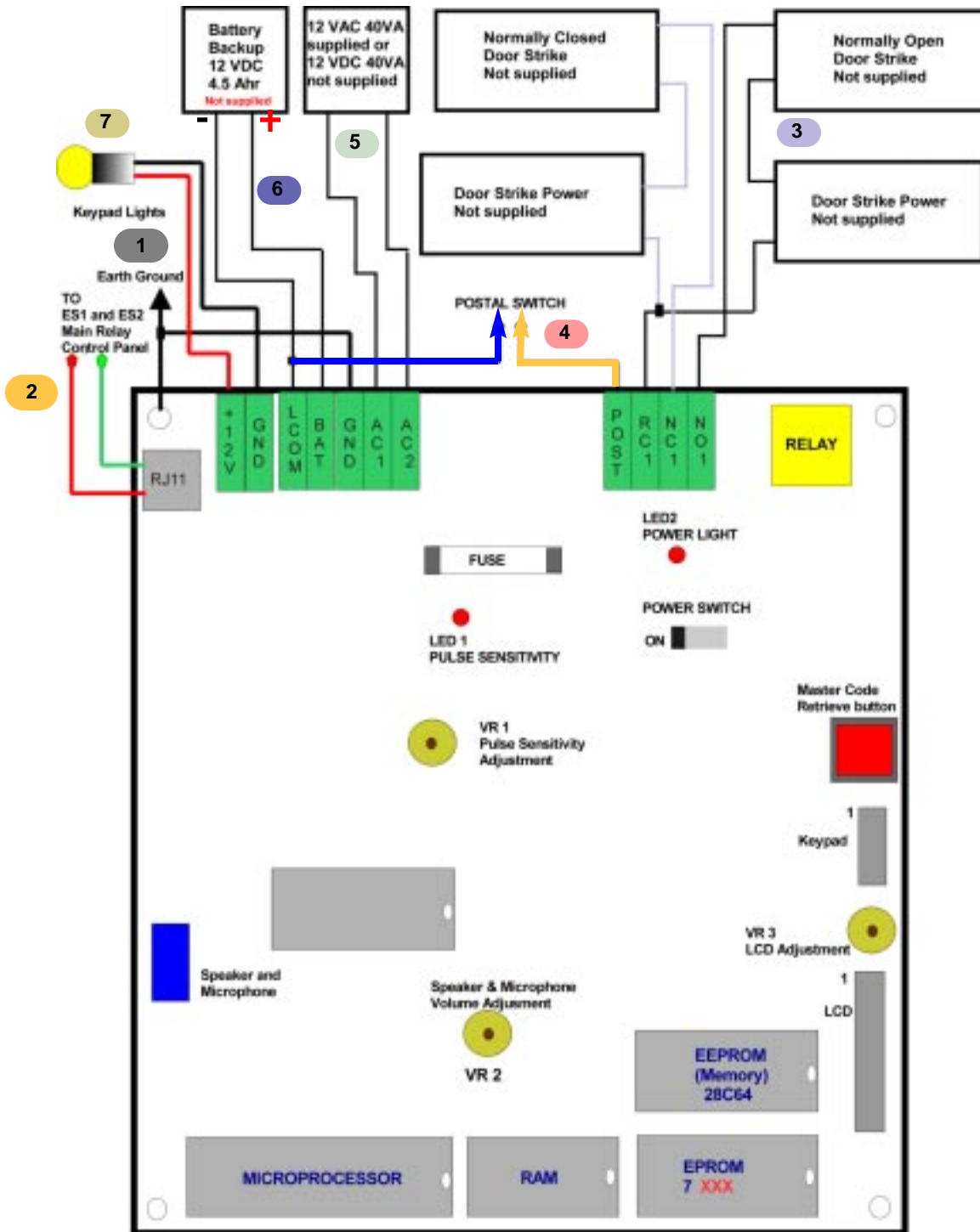


Figure 2.1
Chapter 2
INSTALLATION

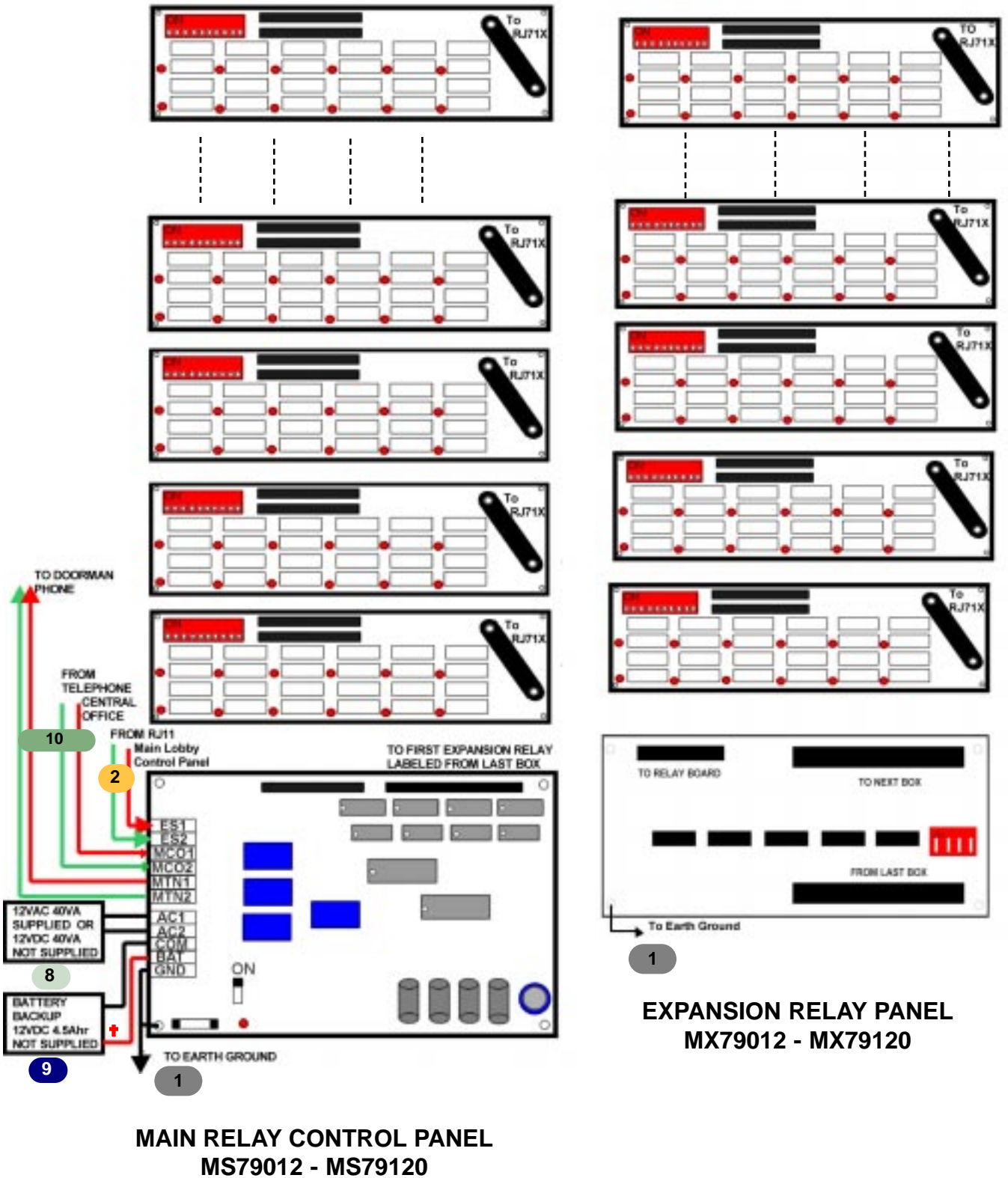
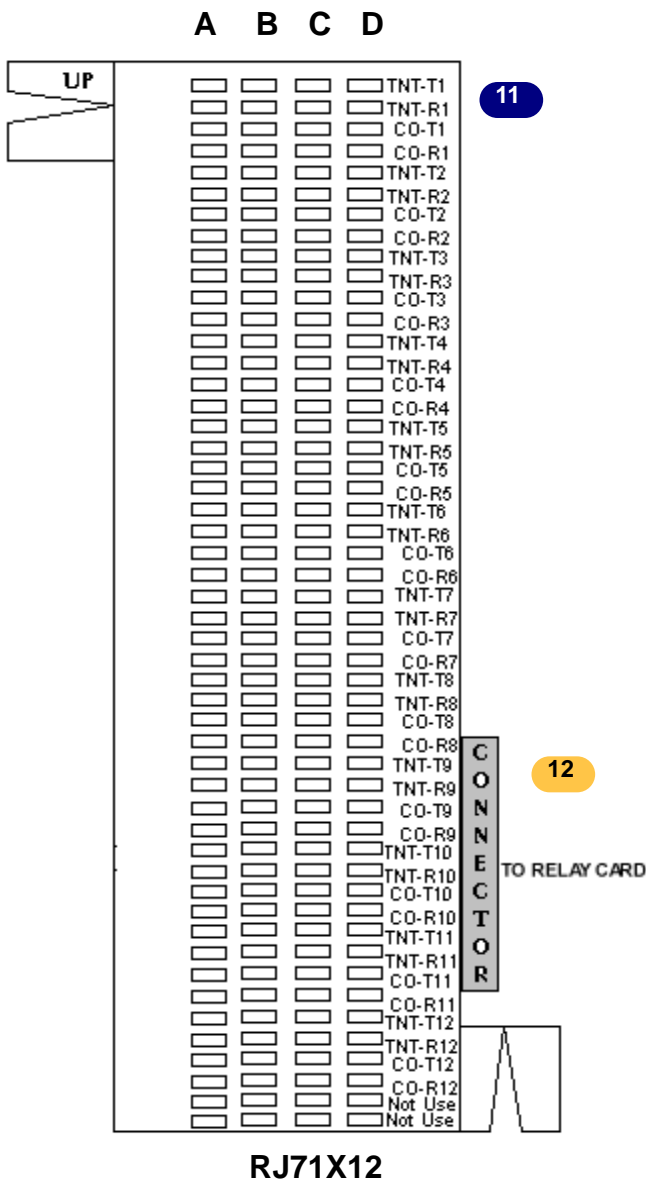
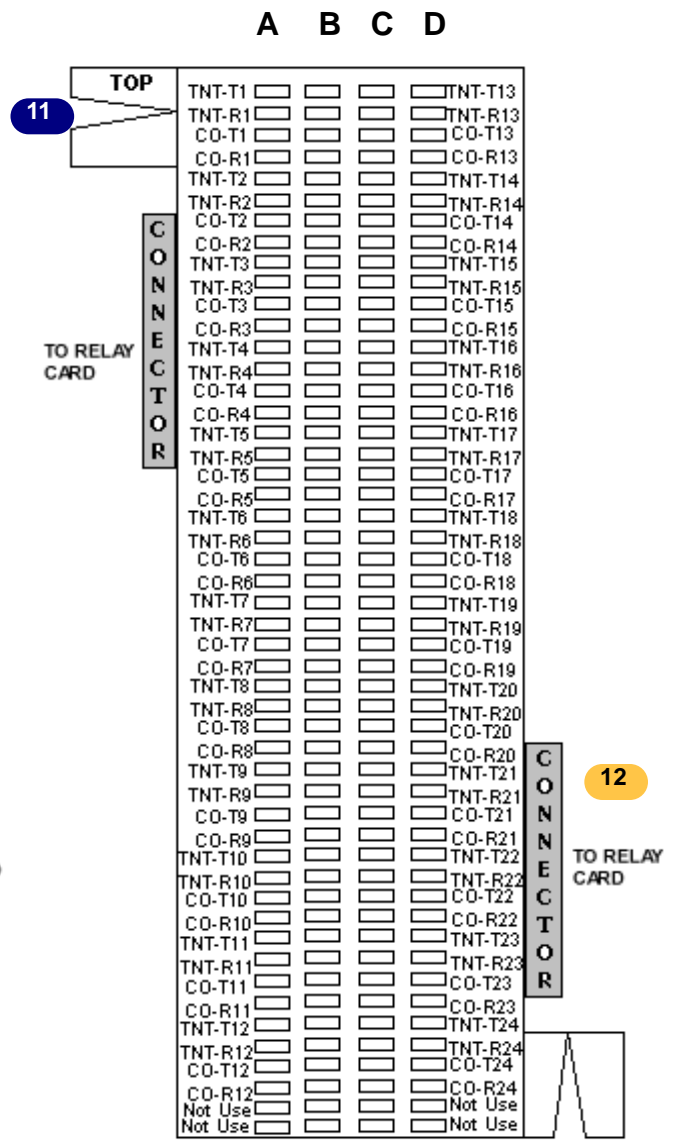


Figure 2.2



RJ71X12

Figure 2.3a



RJ71X24

Figure 2.3b

1 GROUNDING

Grounding the AeGIS 7000NC, MS79xxx and MX79xxx steel enclosure are essential. Please comply with all local ordinances and industry standard procedures to ensure a complete and safe ground. Recommended earth grounds are:

- Use 18-gauge solid wire for grounding.
- Installing a ground steel rod from the steel enclosure to the earth ground, use the same grounding point for best ground.
- Installing a solid heavy gauge wire from the AeGIS steel enclosure to a water pipe.
- Connecting the AeGIS steel enclosure to any earth grounded steel metal.
- Use the same ground point for all the systems to avoid cross-talk problem.

2 COMMUNICATION LINE

Always use AeGIS AC/Telephone Surge Protector (ASP1) to protect your investment. **The Pach and Company "Two Years Warranty" will include lightning if Pach and Company Surge Protector (ASP1) is installed.** One surge protector must be

used for each system. You must claim the damages to the manufacturer of the surge protector, if another manufacturer surge protector is installed.

- Two Conductors, 18-gauge shielded stranded must be used for communication. Ground only one end of the shielded to the earth ground. Use the same earth ground for best ground.
See installation instruction if ASP1 Surge Protector is used.

3 DOOR STRIKE OR ELECTRICAL STRIKE

The AeGIS 7000NC provides a single relay form "C" dry contact: Normally Open (NO) and Normally Closed (NC).

- 10 Ampere 120 VAC or
- 10 Ampere 24 VDC or
- 7 Ampere 250 VAC

See figure 2.1 for door strike wiring diagram. See door strike or electrical strike manual for wiring requirements.

Note: Some door strikes are creating electrical or magnetic noise or spikes and could create problem to the system's memory. Although the system's relay has built-in filtration circuit, installing an isolation relay is recommended if the system is experiencing with looses memory.

4 POSTAL LOCK

The AeGIS 7000NC comes with pre-wired "**Normally Open**" postal switch as shown on figure 2.2(a). If the postal switch is pressed, the gate will open. If you need "**Normally Closed**" postal switch, see figure 2.2(b). The postal lock is not included. You have to purchase the postal lock from your local post office. See figure 2.2(b) to alter the postal switch to normally closed.

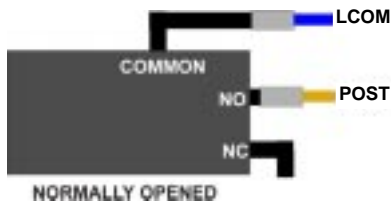


Figure 2.2 (a)

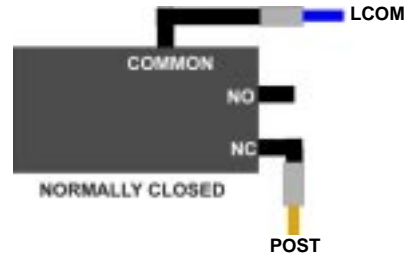


Figure 2.2 (b)

5 AeGIS 7000NC (Main Lobby Control Panel) POWER

A 12 VAC 40VA transformer is supplied by Pach and Company. However, 12 VDC 40VA power supply or 12VDC power supply with battery backup can be used to power the AeGIS 7000NC, use the same connection as shown on figure 2.1.

- Two conductors, 18-gauge wire must be used. **See installation instruction if ASP1 Surge Protector is used.**
- Do not share power transformer or power supply between the AeGIS 7000NC and other electronic equipment.
- Turn the power "ON" (left position). The Power Light Emitting Diode (LED2) should be "ON". You should see "Welcome to Pach's Telephone Access Systems" on the Liquid Crystal Display (LCD). If the display is blank, turn the system off and see Chapter 4.0 Operations and Chapter 6.0 Trouble Shooting Guides.
- **If 12 VDC 40VA with or without built-in battery backup is used, the output voltage must be 13.5 VDC - 14.0 VDC.**

6 BATTERY BACKUP

The AeGIS 7000NC has built-in charging circuit for battery backup. The battery will keep the system in full operation during power failure. Recommended battery is 12 VDC, 4.5 Ahr rechargeable (customer supply). The life of the battery is approximately 8 hours in idle mode.

- Use two conductors 18-gauge wire.

WARNING: The connection is polarity sensitive. Connect the battery (+) terminal to the connector labeled (BAT) on the AeGIS 7000NC and the battery (-) terminal to the connector labeled LCOM on the AeGIS. See figure 2.1 for wiring diagram.

7 NIGHT LIGHT

14V 0.080A 15,000 Average life hours light bulbs. Use the same rating of replacement light bulb.

8 MS79xxx and MX79xxx (Main Relay Control Panel and Expansion Relay Panel) POWER

A 12 VAC 40VA transformer is supplied by Pach and Company. However, 12 VDC 40VA power supply or 12VDC power supply with battery backup can be used to power the MS79xxx and MX79xxx, use the same connection as shown on figure 2.2.

- Two conductors, 18-gauge wire. **See installation instruction if ASP1 Surge Protector is used.**
- Do not share power transformer or power supply between the AeGIS NPB7000 Series and other equipments.
- Turn the power "ON" (up position). The Power Light Emitting Diode should be "ON".
- **If 12 VDC 40VA with or without built-in battery backup is used, the output voltage must be 13.5 VDC - 14.0 VDC.**
- The ribbon cable supplied and connected between the MS79xxx and MX79xxx will power the MS79xxx.

9 BATTERY BACKUP

The MS79xxx has built-in charging circuit for battery backup. The battery will keep the system in full operation during power failure. Recommended battery is 12 VDC, 4.5 Ahr rechargeable (customer supply). The life of the battery is approximately 8 hours in idle mode.

- Use two conductors 18-gauge wire.

WARNING: The connection is polarity sensitive. See figure 2.2.

10 DOORMAN PHONE

You must have a Central Office Telephone Line input on MCO1 and MCO2 to use a Doorman Phone. The door man phone is connected to MTN1 and MTN2. See figure 2.2.

- Use two conductors 22-twisted wire.

11 TENANTS PHONE WIRING

The RJ71X12 and RJ71X24 are supplied by Pach and Company. **The label UP or TOP must at top.** Use 22-gauge twisted wire.

RJ71X12 has 4-columns (A B C and D) and each column has 50 pins. Each pin on column C and D are connected.

WARNING: • DO NOT USE COLUMN A and B to connect the wires.

- THE CONNECTIONS ARE NOT IN PARALLEL.

Each pin is labeled (TNT-T1, TNT-R2, CO-T1, CO-T2,....., TNT-T12, TNT-R12, CO-T12, CO-R12).

TNT is the output telephone wires (Tip and Ring) to the tenant apartment or house.

CO is the input from telephone company wires (dial tone, tip and ring). See figure 2.3(a).

RJ71X24 has 4-columns (A B C and D) and each column has 50 pins. Each pin on column A and B are connected and each pin on column C and D are connected.

WARNING: THE CONNECTIONS ARE NOT IN PARALLEL.

Each pin is labeled (TNT-T1, TNT-R2, CO-T1, CO-T2,....., TNT-T24, TNT-R24, CO-T24, CO-R24).

TNT is the output telephone wires (Tip and Ring) to the tenant apartment or house.

CO is the input from telephone company wires (dial tone, tip and ring). See figure 2.3(b).

12 TELEPHONE STATION CONNECTOR CABLE

Connect the telephone station connector cable supplied to each relay board. The connection will restore the tenant's phone line. See figure 2.2, 2.3(a) and 2.3(b).

2.2 Testing and Verifying the Installation

You must verify your telephone installation by calling every tenant. The easiest way to verify the installation is by connecting a standard telephone to ES1 and ES2 on the Main Relay Control Panel (see figure 2.2) and figure 2.4.

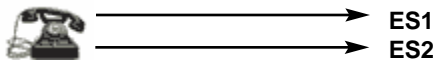


Figure 2.4

Call every tenant using the standard phone as follows (see also table 2.3):

Step 1: Lift the handset and wait for **“Two Long Beeps”**. You also hear the relay click.

Step 2: Press # and the 4-digit relay number (i.e #0001, for relay #1) and the LED #1 on relay# 1 turns ON and the tenant phone connected to relay# should ring. Always check the tenant phone, do not depend on the LED on the relay.

Step3: Hang-up and repeat step 2 to test the next relay number.

Relay Board DIP Switches Setting

Each relay board in the Main Relay Control Panel and the Extended Relay panel represents 12 tenants. For example: MS79024 consists of Main Control board and two relay boards. The last three digit represents the number of tenant. The MX79xxx is needed to configure more than 120 tenants. See table 1.1 for DIP Switch setting.

MODEL MS79012 - MS79120 Main Relay Control Panel or MX79012-MX79120 Expansion Relay Panel										
Relay # / Switch #	1	2	3	4	5	6	7	8	9	10
Relay 1 (1-12 tenants)	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
Relay 2 (13-24 tenants)	OFF	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
Relay 3 (25-36 tenants)	OFF	OFF	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF
Relay 4 (37-48 tenants)	OFF	OFF	OFF	ON	OFF	OFF	OFF	OFF	OFF	OFF
Relay 5 (49-60 tenants)	OFF	OFF	OFF	OFF	ON	OFF	OFF	OFF	OFF	OFF
Relay 6 (61-72 tenants)	OFF	OFF	OFF	OFF	OFF	ON	OFF	OFF	OFF	OFF
Relay 7 (73-84 tenants)	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF	OFF	OFF
Relay 8 (85-96 tenants)	OFF	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF	OFF
Relay 9 (97-108 tenants)	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
Relay 10 (109-120 tenants)	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	ON

Table 2.1 MS79012 - MS7910, MX79012 - MX79120 DIP SWITCHES SETTING

Expansion Relay Panel DIP switches setting

The expansion relay panel is needed to configure more than 120 tenants. Each of the MX79xxx can be used to configure additional 120 tenants. For example 168 tenants system requires MS79120 and MX79048. See table 1.1 and table 1.2 for expansion board setting.

MX79012 - MX79120 Expansion Board Switch Setting				
Expansion Board # / Switch	1	2	3	4
1 (121 - 240 tenants)	OFF	ON	ON	ON
2 (241 - 360 tenants)	ON	OFF	ON	ON
* 3 (361 - 480 tenants)	N/A			
* 4 (481 - 600 tenants)	N/A			
* 5 (601 - 720 tenants)	N/A			
* 6 (721 - 840 tenants)	N/A			
* 7 (841 - 960 tenants)	N/A			
* 7 (841 - 960 tenants)	N/A			

Table 2.2 MX79012 - MX79120 DIP SWITCHES SETTING

* DIP switches setting are not available for higher than 250 tenants on NPB7000 Series.

The Relay Correlation Number

Relay Board	Relay# (LED#)	4-digit Phone#	Relay Board	Relay# (LED#)	4-digit Phone #	Relay Board	Relay# (LED#)	4-digit Phone#
1	1	0001	3	1	0025	5	1	0049
1	2	0002	3	2	0026	5	2	0050
1	3	0003	3	3	0027	5	3	0051
1	4	0004	3	4	0028	5	4	0052
1	5	0005	3	5	0029	5	5	0053
1	6	0006	3	6	0030	5	6	0054
1	7	0007	3	7	0031	5	7	0055
1	8	0008	3	8	0032	5	8	0056
1	9	0009	3	9	0033	5	9	0057
1	10	0010	3	10	0034	5	10	0058
1	11	0011	3	11	0035	5	11	0059
1	12	0012	3	12	0036	5	12	0060
2	1	0013	4	1	0037	⋮	⋮	⋮
2	2	0014	4	2	0038	⋮	⋮	⋮
2	3	0015	4	3	0039	21	1	0241
2	4	0016	4	4	0040	21	2	0242
2	5	0017	4	5	0041	21	3	0243
2	6	0018	4	6	0042	21	1	0244
2	7	0019	4	7	0043	21	1	0245
2	8	0020	4	8	0044	21	1	0246
2	9	0021	4	9	0045	21	1	0247
2	10	0022	4	10	0046	21	1	0248
2	11	0023	4	11	0047	21	1	0249
2	12	0024	4	12	0048	21	1	0250

Table 2.3 The Relay Number Correlation with 4-digit Phone Number

Chapter 3

PROGRAMMING

Two ways to log on to programming mode:

1) **PRESS 0 AND # SIMULTANEOUSLY THEN RELEASE**, the display screen stops scrolling (If the display screen is still scrolling repeat this step again) then enter the valid 4-digit Master Code (default Master Code: 0000). Now, you are in programming mode, the display shows: Select Func: _ _

and proceed to Table 3.1. If the system idles in 30 seconds, the display will return to a scrolling mode.

2) **IF YOU DO NOT HAVE A VALID MASTER CODE**, open the panel (key must be used) then press and release the “**RED BUTTON**” on the board and the display shows: Master Code: x x x x

(x x x x: current 4-digit Master Code), then press #. Now, you are in programming mode and proceed to Table 3.1.

TABLE 3.1 PROGRAMMING FUNCTION CODES

FUNCTION CODE	PROGRAMMING
*	1. Exit the programming mode by pressing * once or twice. 2. Clear the programmed name, phone number or access code by pressing * 3. Press * then the 4-digit access code to unlock the door or gate via the system keypad.
#	Press # to accept program.
00 REPLACE SYSTEM MASTER CODE (Default setting is 0000) Master Code is used to log on to programming mode, not to unlock door or gate.	<p>Step 1 Log on to programming mode (see section 3.1). The display shows Select Func: _ _</p> <p>Step 2 Enter Function code 00, then press #, the display shows Master Code: 0000</p> <p>Step 3 Enter the new 4-digit Master Code then press # the display shows Select Func: _ _</p> <p>If you press * the display shows ERROR DATA * * * *</p> <p>Ignore the message, and your existing Master Code will remain in the system.</p> <p>Step 4 Select another Function Code to program different field from the table or press * to exit the programming mode and you hear “<i>Three Short Beeps</i>”.</p>
01 PROGRAM A NEW TENANT	<p>Step 1 Log on to programming mode (see section 3.1), the display shows Select Func: _ _</p>

FUNCTION CODE

There are four different fields that need to be programmed: Directory Code (DIR), Name, Phone Number (PH #), and Access Code.

Directory Code (DIR): A unique (non-duplicating) 2, 3 (factory default) or 4 digit code assigned for each tenant for identification (Used Function Code 06 to Change Directory Digits). It links to tenant name, phone number and access code. The same number of digit must be used on every tenant's directory.

Name: up to 16 characters.

Phone Number: must be 4-digit relay number (0001-0250), depending on the number of tenants, up to 250 tenants. **Do not enter the tenant actual phone number.**

Access Code: A 4-digits personal code is assigned to individuals for the purpose of granting entry using the Telephone Entry Systems keypad.

Please note the following criteria before entering the tenant Directory Code, Name, Phone Number and Access Code.

1. The Directory Codes can NOT be duplicated.
2. Each Directory Code is considered as one tenant.
3. The existing Directory Codes cannot be changed by another directory code. They can be deleted using Function Code "03".
4. Delete the unused directory code to avoid running out of memory.
5. The Tenant Directory database must contain name. Tenant Directory cannot be deleted if the directory code is forgotten and no name is programmed.
6. The tenant names may be entered in any order. The system will automatically arrange them in alphabetical order.
7. The same Name, Telephone Number and Access Code can be assigned into different directory code number.

PROGRAMMING

Step 2 Enter Function Code 01 then press #, the display shows:

Enter Dir: _ _ _

Step 3 Enter the directory code (see setting on function code 06) 2, 3 (default) or 4-digit. The display shows:

Enter the NAME:

The display goes blank about one second then the display shows:

_

Proceed to Step 4.

If the directory code has already used, the display shows:

Dir # is used !

Return to Step 2.

If the memory is full, the display shows:

ERROR DATA * * * *

You cannot program more tenant unless if you delete the existing one or call Pach and Company to purchase memory upgrade EPROM.

Step 4 Enter the tenant name (up to 16 characters) using the keypad (see keypad layout) then

- Press # after entering each letter then
- Press ## after entering the last letter the display shows:

PH #: _ _ _ _ _



Press 0 for space (move cursor to the right).

Press 8 then 0 for back space (move cursor to the left).

Press * to clear all letters or numbers entered.

For example, to enter **Pach & 12**

- Press "7" key once to select the letter "P", then press #.
- Press "2" key four times to select letter "a", then press #.
- Press "2" key six times to select letter "c", then press #.
- Press "4" key five times to select letter "h", then press #.
- Press "0" key once for space
- Press any key to get the &
- Press "0" key once for space
- Press "1" key eleven times to select number "1", then press #.
- Press "1" key twelve times to select number "2", then press ##.

FUNCTION CODE	PROGRAMMING
	<p>Step 5 Enter the 4-digit relay number in the phone number field then press #, the display shows:</p> <p style="text-align: center;">ACCESS CODE: _ _ _ _</p> <p>Step 6 Enter the 4-digit access code then press #. The 4-digit code is for the tenant to gain access into the door or gate. See operation to use the access code.</p> <p>Step 7 Proceed to step 2 and select the same Function Code or different Function Code to continue programming or press * to exit the programming mode and you hear “<i>Three Short Beeps</i>”.</p>
<p style="text-align: center;">02</p> <p style="text-align: center;">MODIFY AN EXISTING TENANT DIRECTORY</p> <p>You must know the tenant directory you want to modify. If you do not know the tenant directory, see Function Code 78 View Directory by Name.</p>	<p>Step 1 Log on to programming mode (see section 3.1), the display shows:</p> <p style="text-align: center;">Select Func: _ _</p> <p>Step 2 Enter Function Code 02 then press #, the display shows:</p> <p style="text-align: center;">Modify Dir: _ _ _</p> <p>Step 3 Enter the tenant directory to be modified then press # the display shows:</p> <p style="text-align: center;">Enter the NAME:</p> <p style="text-align: center;">then</p> <p style="text-align: center;">Tenant's name appear</p> <p>Step 4</p> <ul style="list-style-type: none"> • To change name: press * to erase and program a new one. <ul style="list-style-type: none"> • Press # after entering each letter then • Press # # after entering the last letter • To keep name: press #. <p>The display shows:</p> <p style="text-align: center;">PH#: Tenant's Phone</p> <p>Step 5</p> <ul style="list-style-type: none"> • To change phone number: press * to erase and program a new one then press #. • To keep the phone number: press #. <p>The display shows:</p> <p style="text-align: center;">Access Code: X X X X</p> <p>X is existing access code.</p> <ul style="list-style-type: none"> • To change access number: enter a new one then press #. • To keep the access code: press #. <p>Step 6 Proceed to step 2 and select the same Function Code or different Function Code to continue programming or press * to exit the programming mode and you will “<i>Three Short Beeps</i>”.</p>

FUNCTION CODE	PROGRAMMING
<p style="text-align: center;">03</p> <p style="text-align: center;">DELETE AN EXISTING TENANT DIRECTORY</p> <p>Delete an existing tenant one by one. This function code is very useful to free the system memory by deleting the unused directory.</p>	<p>Step 1 Log on to programming mode (see section 3.1), the display shows:</p> <p style="text-align: center;">Select Func: _ _</p> <p>Step 2 Enter Function Code 03 then press #, the display shows:</p> <p style="text-align: center;">Delete Dir: _ _ _</p> <p>Step 3 Enter a tenant directory code you want to delete the press #. The display shows:</p> <p style="text-align: center;">(Dir Code) is deleted !</p> <p>If the directory does not exist, the display shows:</p> <p style="text-align: center;">Error on Delete !</p> <p>Proceed to step 2.</p> <p>Step 4 Proceed to step 2 and select the same Function Code or different Function Code to continue programming or press * to exit the programming mode and you will hear “Three Short Beeps”.</p>
<p style="text-align: center;">04</p> <p style="text-align: center;">CLEAR ALL TENANTS DIRECTORY</p>	<p>Step 1 Log on to programming mode (see section 3.1), the display shows:</p> <p style="text-align: center;">Select Func: _ _</p> <p>Step 2 Enter Function Code 04 then press #, the display shows:</p> <p style="text-align: center;">Delete all? 13</p> <p>Step 3 • Press 13 then # the display shows:</p> <p style="text-align: center;">Are you sure ? 5</p> <p>then proceed to step 4 or</p> <p>• Press * to cancel deletion and you hear “One Long Beep” and proceed to step 5.</p> <p>Step 4 Press 5 then # to delete or Press * to cancel deletion.</p> <p>Step 5 Proceed to step 2 and select the same Function Code or different Function Code to continue programming or press * to exit the programming mode and you will hear “Three Short Beeps”.</p>
<p style="text-align: center;">05</p> <p style="text-align: center;">MANUAL LOCK (OPEN) OR UNLOCK (CLOSE) DOOR</p>	<p>Step 1 Log on to programming mode (see section 3.1), the display shows:</p> <p style="text-align: center;">Select Func: _ _</p> <p>Step 2 Enter Function Code 05 then press #, the display shows:</p> <p style="text-align: center;">OPEN: 00 HOURS</p> <p>Step 3 Enter</p> <ul style="list-style-type: none"> • 01-98 hours to unlock door or • 99 hours to to unlock door for indefinite time or • 00 hours to lock door

FUNCTION CODE	PROGRAMMING
	<p>then press # or press * to cancel.</p> <p>Step 5 Proceed to step 2 and select the same Function Code or different Function Code to continue programming or press * to exit the programming mode and you will hear “Three Short Beeps”.</p>
<p style="text-align: center;">06</p> <p style="text-align: center;">SELECTING DIRECTORY DIGITS</p> <p>Factory default setting is 3-digit.</p>	<p>Step 1 Log on to programming mode (see section 3.1), the display shows:</p> <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 5px auto;">Select Func: _ _</div> <p>Step 2 Enter Function Code 06 then press #, the display shows:</p> <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 5px auto;">DIR DIGITS: 3 _</div> <p>Step 3 Enter the Directory Digits 2, 3 or 4 then press # or press * to keep the existing one.</p> <p>Step 4 Proceed to step 2 and select the same Function Code or different Function Code to continue programming or press * to exit the programming mode and you will hear “Three Short Beeps”.</p>
<p style="text-align: center;">10</p> <p style="text-align: center;">CHANGE THE WELCOME SCREEN</p> <p>Welcome screen is divided into three segment. Each segment consists of 16-characters. The welcome screen can be a combination of letter and number.</p>	<p>Step 1 Log on to programming mode (see section 3.1), the display shows:</p> <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 5px auto;">Select Func: _ _</div> <p>Step 2 Enter Function Code 10 then press #, the display shows:</p> <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 5px auto;">Welcome to Pach'</div> 1st segment <p>Step 3 Press * to erase the 1st segment then enter the welcome message then press # # to proceed to the 2nd segment, the display shows:</p> <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 5px auto;">s Telephone Acce</div> <p>Step 4 Press * to erase the 2nd segment then enter the welcome message then press # # to proceed to the 3rd segment, the display shows:</p> <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 5px auto;">ss System . . . * *</div> <p>Step 5 Press * to erase the 3rd segment then enter the welcome message then press # #.</p> <p>Step 6 Proceed to step 2 and select the same Function Code or different Function Code to continue programming or press * to exit the programming mode and you will hear “Three Short Beeps”.</p> <p>Note: See keypad correlation on page 3.</p>

FUNCTION CODE	PROGRAMMING
<p style="text-align: center;">46</p> <p style="text-align: center;">SYSTEM INFORMATION</p> <p>Display the model number and the firmware released date.</p>	<p>Step 1 Log on to programming mode (see section 3.1), the display shows:</p> <p style="text-align: center;"><input type="text" value="Select Func: _ _"/></p> <p>Step 2 Enter Function Code 46 then press #, the display shows:</p> <p style="text-align: center;"><input type="text" value="V7XXX MM/DD/YY"/></p> <p>XXX: the model number. MM/DD/YY: month, date, and year firmware released.</p> <p>Step3 Press * then proceed to step 2 and select the same Function Code or different Function Code to continue programming or press * to exit the programming mode and you will hear "Three Short Beeps".</p>
<p style="text-align: center;">50</p> <p style="text-align: center;">CLEAR THE MEMORY TO FACTORY DEFAULT</p> <p>Use this Function Code will erase the whole database and and reset the system to factory default.</p>	<p>Step 1 Log on to programming mode (see section 3.1), the display shows:</p> <p style="text-align: center;"><input type="text" value="Select Func: _ _"/></p> <p>Step 2 Enter Function Code 50 then press #, the display shows:</p> <p style="text-align: center;"><input type="text" value="1 to confirm: _"/></p> <p>Step 3 Press 1 to confirm the display shows:</p> <p style="text-align: center;"><input type="text" value="DB Init. Wait . . . _"/></p> <p>and the system returns to Welcome Screen, or * to cancel and proceed to step 3.</p> <p>Step4 Press * then proceed to step 2 and select the same Function Code or different Function Code to continue programming or press * to exit the programming mode and you will hear "Three Short Beeps".</p>
<p style="text-align: center;">70</p> <p style="text-align: center;">CHANGE TALK TIME (Default setting is 60 seconds)</p> <p>The talk time is the length of time the visitor can talk to the tenant. The talk time timer starts as soon as the system initiates the call.</p>	<p>Step 1 Log on to programming mode (see section 3.1), the display shows:</p> <p style="text-align: center;"><input type="text" value="Select Func: _ _"/></p> <p>Step 2 Enter Function Code 70 then press #, the display shows:</p> <p style="text-align: center;"><input type="text" value="TALK TIME: 060"/></p> <p>Step 3 Enter Talk Time Value in 3-digit mode (010 -180) seconds the press #.</p> <p>Step4 Press * then proceed to step 2 and select the same Function Code or different Function Code to continue programming or press * to exit the programming mode and you will hear "Three Short Beeps".</p>

FUNCTION CODE	PROGRAMMING
<p style="text-align: center;">71</p> <p style="text-align: center;">CHANGE DOOR OPEN INTERVAL (Default setting is 12 seconds)</p> <p>The Door Open Interval is the length of time the relay turns on.</p>	<p>Step 1 Log on to programming mode (see section 3.1), the display shows:</p> <p style="text-align: center;">Select Func: _ _</p> <p>Step 2 Enter Function Code 71 then press #, the display shows:</p> <p style="text-align: center;">OPEN TIME: 12</p> <p>Step 3 Enter the Open Time value in 2-digit mode (04-99) seconds then press #.</p> <p>Step 4 Press * then proceed to step 2 and select the same Function Code or different Function Code to continue programming or press * to exit the programming mode and you will hear “Three Short Beeps”.</p>
<p style="text-align: center;">72</p> <p style="text-align: center;">CHANGE LOCK OUT COUNT (Default setting is 3)</p> <p>The system is disabled if invalid access code has been entered according to the lock out count sets on Function Code 72. The system will ignore further access code entries for 90 seconds.</p>	<p>Step 1 Log on to programming mode (see section 3.1), the display shows:</p> <p style="text-align: center;">Select Func: _ _</p> <p>Step 2 Enter Function Code 72 then press #, the display shows:</p> <p style="text-align: center;">LOCK-OUT CNT: 3</p> <p>Step 3 Enter the lock out count in one-digit mode (1-9).</p> <p>Step 4 Press * then proceed to step 2 and select the same Function Code or different Function Code to continue programming or press * to exit the programming mode and you will hear “Three Short Beeps”.</p>
<p style="text-align: center;">75</p> <p style="text-align: center;">TURN ON OR OFF KEY PRESS BEEP (Default setting is ON)</p> <p>If ON, the system beep if key is pressed.</p> <p>If OFF, the system does not beep if the key is pressed.</p>	<p>Step 1 Log on to programming mode (see section 3.1), the display shows:</p> <p style="text-align: center;">Select Func: _ _</p> <p>Step 2 Enter Function Code 75 then press #, the display shows:</p> <p style="text-align: center;">BEEP On=1 OFF=0: 1</p> <p>Step 3 Enter 1 to turn ON key press beep or 0 turn OFF key press beep, then press #.</p> <p>Step 4 Press * then proceed to step 2 and select the same Function Code or different Function Code to continue programming or press * to exit the programming mode and you will hear “Three Short Beeps”.</p>
<p style="text-align: center;">76</p> <p style="text-align: center;">TURN ON OR OFF SPEAKER BEEP (Default setting is ON)</p> <p>If ON, the system beep if the door is unlocked.</p>	<p>Step 1 Log on to programming mode (see section 3.1), the display shows:</p> <p style="text-align: center;">Select Func: _ _</p> <p>Step 2 Enter Function Code 76 then press #, the display shows:</p> <p style="text-align: center;">UnlockBeep (1,0): 1</p>

FUNCTION CODE	PROGRAMMING
<p>If OFF, the system does not beep if the door is locked.</p>	<p>Step 3 Enter 1 to turn ON unlock beep or 0 to turn OFF unlock beep, then press #.</p> <p>Step4 Press * then proceed to step 2 and select the same Function Code or different Function Code to continue programming or press * to exit the programming mode and you will hear “Three Short Beeps”.</p>
<p style="text-align: center;">77</p> <p style="text-align: center;">ENABLE OR DISABLE REMOTE ACCESS (Default setting is Enable)</p> <p>If Enable, the system will unlock the door if 9 is pressed.</p> <p>If Disable, the system will not unlock the door if 9 is pressed.</p>	<p>Step 1 Log on to programming mode (see section 3.1), the display shows:</p> <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 5px auto;">Select Func: _ _</div> <p>Step 2 Enter Function Code 77 then press #, the display shows:</p> <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 5px auto;">ENA=1 DISA=0: 1</div> <p>Step 3 Enter 1 to Enable remote access or 0 to disable remote access, then press #.</p> <p>Step4 Press * then proceed to step 2 and select the same Function Code or different Function Code to continue programming or press * to exit the programming mode and you will hear “Three Short Beeps”.</p>
<p style="text-align: center;">78</p> <p style="text-align: center;">VIEW DIRECTORY BY NAME</p> <p>This Function Code is very useful to find the tenant directory.</p>	<p>Step 1 Log on to programming mode (see section 3.1), the display shows:</p> <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 5px auto;">Select Func: _ _</div> <p>Step 2 Enter Function Code 78 then press #, and the name in alphabetical order shows on the display (press 3 to scroll A-Z or 6 to scroll Z-A).</p> <p>Step 3 Press # to display the directory code.</p> <p>Step4 Press * then proceed to step 2 and select the same Function Code or different Function Code to continue programming or press * to exit the programming mode and you will hear “Three Short Beeps”.</p>

Chapter 4

SYSTEM'S OPERATION

<p>HOW TO VIEW THE TENANT NAME</p>	<p>Two ways to view the tenant name:</p> <ol style="list-style-type: none"> 1. Press 3 to scroll the tenant name from A to Z. 2. Press 6 to scroll the tenant name from Z to A.
<p>HOW TO INITIATE A CALL AND PROVIDE REMOTE ACCESS TO VISITOR</p>	<p>Two way to initiate a call:</p> <p>1. USING THE SCROLLING ELECTRONIC DIRECTORY</p> <p>Step 1 Press 3 or 6 to scroll the tenant name, when the tenant name you are intended to call is visible on the display, then press # to initiate the call. The display shows:</p> <p style="text-align: center;">Connected . . .</p> <p>then you will hear a “Long Beep” every second until the tenant answer the call or the system timer is expired.</p> <p>If the display shows:</p> <p style="text-align: center;">LineBusy/No Ctrlr</p> <p>Is the indication as that:</p> <ul style="list-style-type: none"> • The manager is talking with tenant using the manager phone. • If multi system is installed, one of the system is used. • Communication problem. <p>Step 2 Press * to cancel the call, otherwise wait for the tenant to answer your call.</p> <p>Step 3 Tenant must answer the incoming call then press 9 to to provide remote access to visitor (does not work on pulse phone).</p> <p>2. A DIRECT CALL</p> <p>You must know the tenant directory number to use a direct call. The tenant directory number can be associated with apartment number, suite number, etc..</p> <p style="text-align: center;">DIR CODE:</p> <p>Step 1 Press # and the display shows:</p> <p>Step 2 Press the 2, 3 or 4 digit directory number, the system will initiate the call.</p> <p>Step 3 Press * to cancel the call, otherwise wait for the tenant to answer your call.</p> <p>Step 4 Tenant must press 9 to to provide remote access to visitor (does not work on pulse phone).</p>
<p>DISTINCTIVE RINGING</p>	<p>The AeGIS NPB7000 Series provide distinctive ringing (double rings). The Distinctive Ringing is very helpful for the tenant to discriminate the incoming call from the Main Lobby Control Panel and the outside line. The outside line incoming calls have a single ring pattern, unless if the tenant is on special telephone line such as PBX or KSU.</p> <p>WARNING: Certain phone equipment may not be compatible with AeGIS NPB7000 Series. Pach and Company will not responsible for any incompatibility problems. Tenant must replace the phone equipment to be compatible with our system.</p>

<p>HOW TO USE THE BUILT-IN CALL WAITING FEATURE</p> <p>* DOES NOT WORK ON PULSE PHONE</p>	<p>The AeGIS NPB7000 Series have a built-in call waiting feature. This call waiting feature only works for the AeGIS NPB7000 Series.</p> <p><u>Two scenarios for the AeGIS NPB7000 Call Waiting will activated:</u></p> <ol style="list-style-type: none"> 1) If the tenant is on the phone with the AeGIS NPB7000 Series and an incoming out side call is detected, you will hear “BEEP” once very second. 2) If the tenant is talking with somebody using the outside line and an incoming AeGIS NPB7000 Series is detected, you will hear “BEEP” once very second. <p><u>To Place the existing call on hold , to switch between the two calls, or to ignore the incoming call</u></p> <ol style="list-style-type: none"> 1) Tenant must press 0 to place the existing call on hold. 2) Tenant must press 0 to return to the original call. 3) Tenant must not press any button to ignore the incoming call. <p>* Tenant can press 9 to provide access to visitor (does not work on pulse phone).</p>
<p>HOW TO USE THE OPTIONAL DOORMAN OR MANAGER PHONE</p> <p>* DOES NOT WORK ON PULSE PHONE</p>	<p>The optional doorman or manager phone can be used to call the tenant connected to the AeGIS NPB7000 Series without using the outside line, therefore no local calls fee involved. You must have a dedicated phone line connected to MCO1 and MCO2 to provide a DTMF tone. See figure 2.2 for wiring diagram. <i>The optional doorman or manager phone can only call the tenants connected to the AeGIS NPB7000 Series, the tenants cannot call the doorman or manager.</i></p> <p><u>To Place a call to tenant:</u> press # then the 4-digit phone number (relay number, not tenant actual phone number.</p> <p><u>To Place a call using the outside line:</u> because your phone is connected as a doorman or manager phone, to place a call using the outside line you must press 0 then dial the phone number (actual phone number).</p>
<p>HOW TO EXTEND THE TALK TIME</p> <p>* DOES NOT WORK ON PULSE PHONE</p>	<p>The talk time can be programmed from 10 - 180 seconds. You will hear “ One Long Beep” ten seconds before the talk time expires. The tenant must press # immediately to extend the talk time to another cycle. For example: if the talk time is set for 30 seconds, pressing # will extend for another 30 seconds. You can continue pressing the # to extend the talk time after the “ One Long Beep”.</p>
<p>HOW TO PROVIDE REMOTE ACCESS</p> <p>* DOES NOT WORK ON PULSE PHONE</p>	<p>Press 9 to unlock the door.</p> <p>* Remote Access can be disabled using function code 77.</p>
<p>HOW TO DISABLE REMOTE ACCESS</p>	<p>Function Code 77 is to disable remote access. Disabling remote access means disable number 9 from unlocking the door.</p>
<p>HOW TO USE THE 4-DIGIT ACCESS CODE TO UNLOCK THE DOOR</p>	<p>The personal Access Code is used to unlock the door without using the key. It is not mandatory for the manager to provide a personal access code for each tenant. If you decide not to provide a personal access code to each tenants, all you have to do is to leave the Access Code Field blank when you program the tenant directory. See Function code 01.</p> <p>Step 1 Press * and the screen stops scrolling then press the 4-digit access code.</p>

HOW TO ADJUST THE SPEAKER AND MICROPHONE VOLUME	<p>The speaker volume and microphone are factory preset. The adjustment pot is VR2, see figure 2.1. Turn the speaker volume adjustment pot counter-clockwise to increase or clockwise to decrease the speaker volume. If you hear a "feedback" when you closed the panel door, decrease the speaker and microphone volume.</p>
HOW TO ADJUST THE LCD DISPLAY	<p>Turn the LCD Adjustment Pot (VR3) clockwise to increase or counter-clockwise to decrease the intensity. See figure 2.1 to locate the LCD adjustment pot.</p>
HOW TO ADJUST THE PULSE SENSITIVITY	<p>The Pulse sensitivity is factory preset. An adjustment is necessary if the system is in a dial tone mode (press # to get a dial tone) and the PULSE SENSITIVITY LED1 flashes or ON (see figure 2.1). If the PULSE SENSITIVITY IS TOO SENSITIVE, the system may unlock the door by itself without pressing 9. Follow the instruction below to adjust the pulse sensitivity:</p> <p>Step 1 Apply power to the system and connect the phone line.</p> <p>Step 2 If the Pulse Sensitivity LED1 flashes or ON when the system is in dial tone mode (press #), decrease the pulse sensitivity by turning the Pot adjustment (VR1) clockwise, otherwise proceed to step 3.</p> <p>Step 3 If the Pulse Sensitivity LED1 does not flash or ON, press the keypad number 0-9 and the LED should be flashed every time the key number is pressed. If it does not flash, increase the sensitivity by turning the pot counter-clockwise.</p>
HOW TO CHECK THE NUMBER OF THE TENANTS PROGRAMMED IN THE SYSTEM.	<p>You cannot program the tenant's directory more than the system capacity. An accurate tenant's record is essential. You must delete any unused tenant's directory to free the system's memory. If you program a tenant database without programming the tenant's name, the system will not record it in the memory and you will not get an accurate number of tenant in the memory. You may check the total number of tenant in the system as follow:</p> <p>Step 1 Log on to programming mode (see section 3.1), the display shows:</p> <div style="text-align: center; border: 1px solid black; width: fit-content; margin: 0 auto; padding: 2px;"> Select Func: _ _ </div> <p>Step 2 Press * to exit, then the display shows:</p> <div style="text-align: center; border: 1px solid black; width: fit-content; margin: 0 auto; padding: 2px;"> Total Tnt: XXX </div> <p>XXX is the total number of tenant in the system.</p>

Chapter 5

TROUBLE SHOOTING GUIDE

AUDIO PROBLEM S	SOLUTIONS AND SUGGESTIONS
NO AUDIO WHEN KEY(S) IS PRESSED.	<ul style="list-style-type: none"> • Check the speaker and microphone connection on the board. The snap on clip connector on the speaker and microphone connector must be facing inside the board. • Check the red and orange wires, make sure they are soldered into the speaker. • Turn the power "OFF" and disconnect the speaker connector from the board. Set your meter to Ohm and use 50 Ohm scale or higher. Put the two probes into the speaker (+) and (-) (polarity not important) and the meter should read between 19 - 24 Ohms.
THE VISITOR CAN'T HEAR THE TENANT FROM THE SYSTEM BUT THE TENANT CAN HEAR THE VISITOR.	<ul style="list-style-type: none"> • Check the speaker and microphone connection. The snap on clip connector on the speaker and microphone connector must be facing inside the board. • Check the red and orange wires, make sure they are soldered into the speaker. • Press the # key as soon as you hear a dial tone, tap your finger into the microphone and you should hear a finger tap sound from the speaker.
THE TENANT CAN'T HEAR THE VISITOR TALKING BUT THE VISITOR CAN HEAR THE TENANT	<ul style="list-style-type: none"> • Check the speaker and microphone connection. The snap on clip connector on the speaker and microphone connector must be facing inside the board. • Check the brown and black wires, make sure they are soldered into the microphone. • Turn the system's power "OFF" and disconnect the speaker connector from the board. Set your meter to Ohm and use 50 Ohm scale or higher. Put the two probes into the speaker (+) and (-) (polarity not important) and the meter should should read between 19 - 24 Ohms.
DISPLAY PROBLEM S	SOLUTIONS AND SUGGESTIONS
THE LIQUID CRYSTAL DISPLAY (LCD) SHOWS QUESTION MARKS (????)	<ul style="list-style-type: none"> • Turn the unit power "OFF" and "ON". • Erase the memory chip (EEPROM) using Function Code 50. If you have trouble to log on to programming mode, press and release the square red button then press #.
THE LIQUID CRYSTAL DISPLAY (LCD) IS BLANK, NO DISPLAY AT ALL.	<ul style="list-style-type: none"> • The power LED must be "ON" (LED2 marked on the board). • The Power Switch's toggle must be on the left position ("ON"). • Check the fuse (3 Amp 250 Volt). • Measure the voltage on AC1 and AC2 (set your voltmeter to AC and put the probes on AC1 and AC2), it should read within 12VAC-13.8VAC or if you use 12 VDC, the meter must read 13.5 - 14.0 VDC. • The LCD's ribbon cable has red dots along the side. The red dots must be facing up. It must be connected to the terminal marked number 1. • If the system beep when the keypad is pressed, try to adjust the LCD intensity. The display may change the intensity because of a temperature changed. • The LCD's ribbon cable sits tight on the terminal pins marked LCD on the board. • The LCD's ribbon cable is connected into the LCD's terminal pins connector and the red dots along the side of the ribbon should be connected on pin 1. • Adjust the LCD's intensity. • Turn the system's power "OFF", wait for 15 seconds and turn it "ON". • If the sunlight hits directly into the the LCD, block the sunlight. If the LCD is readable after you block the sunlight, you may have to move the system to a different location otherwise the system will collect heat and it may get damaged if the inside temperature reaches above 140 °F.

DISPLAY PROBLEMS	SOLUTIONS AND SUGGESTIONS
	<ul style="list-style-type: none"> • If the display only fails when the outside temperature is below 32°F or 0°C, you may need to install a heater (AHP-5). • If the system beep when the keypad is pressed, try to adjust the LCD's intensity, if the LCD display is still blank. possibility the LCD is bad.
<p>THE LCD SHOWS EIGHT SQUARES OR UNDERLINES</p>	<ul style="list-style-type: none"> • The LCD's ribbon cable has red dots along the side. The red dots must be facing up and connected to pin 1. • It must be connected to the terminal marked LCD on the board. • The LCD's ribbon cable sits tight on the terminal pins marked LCD on the board. • The LCD's ribbon cable is connected into the LCD's terminal pin connector and the red dots along the side of the ribbon should be connected on pin 1. • Turn the system's power "OFF", wait for 15 seconds and turn it "ON". • The input voltage to AC1 and AC2 should read within 12VAC-13.8VAC or if you use 12 VDC, the meter must read 13.5 - 14.0 VDC. • If the display only fails when the outside temperature is below 32°F or 0°C, you may need to install a heater (AHP-5).
COMMUNICATION PROBLEMS	SOLUTIONS AND SUGGESTIONS
<p>THE VISITOR CAN'T PLACE A CALL TO A TENANT OR TENANTS</p>	<ul style="list-style-type: none"> • Check to see if the problem occurs on all tenants. • Check the phone number (must be 4-digit relay number) on the system programming. • If LineBusy/No Ctrlr shows on the display, turn Off and On the Main Relay Control Panel. If the problem still exist, proceed to the next step. • Disconnect the communication wires between the Main Lobby Control Panel and the Main Relay Control Panel (ES1 and ES2), then connect a standard phone into ES1 and ES2 as shown on figure 2.4. Try to dial each tenant by pressing #xxxx (xxxx is the 4-digit relay number). <ul style="list-style-type: none"> • If you can place a call to each tenant, you may have a problem with the Main Lobby Control panel. • If you can't place a call to each tenant, you may have a problem with the Main Relay Control Panel.
<p>THE VISITOR HEARS A RADIO STATION ON THE MAIN LOBBY CONTROL PANEL (AEGIS 7000NC) SYSTEM WHILE TALKING TO A TENANT.</p>	<ul style="list-style-type: none"> • Check if the problem occurs on all tenants. • Disconnect the ground wire (marked GND, see figure 2.1)) from the board. <ul style="list-style-type: none"> • If the problem still exists, install a Modular RFI Filter. • If the problem disappear, find a different Earth Ground and connect all the system's ground (GND) to the same point of earth ground. • Disconnect the communication wires between the Main Lobby Control Panel and the Main Relay Control Panel (ES1 and ES2), then connect a standard phone into ES1 and ES2 as shown on figure 2.4. Try to dial each tenant by pressing #xxxx (xxxx is the 4-digit relay number). <ul style="list-style-type: none"> • If the problem still exists, install a Modular RFI Filter. • If the problem disappear, find a different Earth Ground and connect all the system's ground (GND) to the same point of earth ground.
<p>BOTH THE VISITOR AND TENANT HEAR STATIC WHILE THEY ARE TALKING.</p>	<ul style="list-style-type: none"> • Check if the problem occurs on all tenants. • Disconnect the communication wires between the Main Lobby Control Panel and the Main Relay Control Panel (ES1 and ES2), then connect a standard phone into ES1 and ES2 as shown on figure 2.4. Try to dial each tenant by pressing #xxxx (xxxx is the 4-digit relay number). <ul style="list-style-type: none"> • If the problem still exists, install a Modular RFI Filter. • If the problem disappear, find a different Earth Ground and connect all the system's ground (GND) to the same point of earth ground. • Disconnect the ground wire (marked GND, see figure 2.1)) from the board. <ul style="list-style-type: none"> • If the problem still exists, install a Modular RFI Filter. • If the problem disappear, find a different Earth Ground and connect all the system's ground (GND) to the same point of earth ground.

CAN HEAR THREE WAYS CONVERSATION ON THE MAIN LOBBY CONTROL PANEL (CROSS TALK)	<ul style="list-style-type: none"> • Remove the Earth Ground connection, if the problem disappear, connect the system's earth ground to a different Earth Ground Reference Point. • Connect all the system's GND to same Earth Ground Reference Point. • Use twisted pair wires for telephone connections to the RJ71X.
TENANT PHONE DOES NOT RING	<ul style="list-style-type: none"> • The connection on the RJ71X block may be reversed. • The tenant phone may not tolerate with the system ring, you may have to try different phone. • Too many phone is connected to the same phone line. • Bad Main Relay Control Panel.
THE SOUND KEEPS GOING OUT WHILE THE TENANT AND VISITOR ARE TALKING	<ul style="list-style-type: none"> • The Main Lobby Control Panel does not have full-duplex speakerphone. If the AeGIS 7000NC is installed in a noisy environment, you may experience with this problem. • Short wiring on the RJ71X block. • Both the visitor and tenant can't talk simultaneously. • Try to speak a little further from the system
GATE PROBLEMS	SOLUTIONS AND SUGGESTIONS
THE GATE OR DOOR DOES NOT OPEN WHEN THE TENANT PRESSES NUMBER "9"	<ul style="list-style-type: none"> • Check power on the gate operator or door strike. • Check Function 77, it must be enabled • Check for loose connection on gate or door strike wires on RC1 and NO1 (if you use "Normally Open" gate or door strike) or RC1 and NC1 (if you use "Normally Close" gate or door strike) on the AeGIS 7000NC system. • Remove the two wires on RC1 and NO1 and short the two wires, the door or gate should open or remove the two wires on RC1 and NC1, the gate or door should open. If the door or gate does not open, you may have a problem with the gate or door strike. • Test the relay and follow the steps below: <ol style="list-style-type: none"> 1. Set your multi-meter to Ohm (touch the two probes, the meter will read about 0 (zero value) 2. Connect the meter's probes to RC1 and NO1 (if "Normally Open" strike is used, the meter will read as an open circuit) or RC1 and NC1 (if "Normally Close" strike is used your meter will read about 0 value). 3. Place a call from the system to one of the tenants and tell the tenant to press "9" and you should get the following results: <ul style="list-style-type: none"> • Your meter should read to about 0 value if RC1 and NO1 contacts are used, otherwise the system's relay is bad. • Your meter should read as an open-circuit if RC1 and NC1 contacts are used, otherwise the system's relay is bad.
THE GATE OR DOOR DOES NOT OPEN WHEN THE TENANT PRESSES NUMBER "9" BUT IT OPENS USING THE PERSONAL ACCES CODE	<ul style="list-style-type: none"> • Try to call a few different tenants. If the problem precists, erase the system's memory to default (use function code 50). • Call the Technical Support, you may have a bad board.
KEYPAD PROBLEMS	SOLUTIONS AND SUGGESTIONS
ALL OR SOME OF THE KEYPAD'S KEYS DO NOT WORK	<ul style="list-style-type: none"> • The keypad's ribbon cable has red dots along the side, the red dots must be facing upward and connected to pin 1. • Turn the power "OFF" and disconnect the keypad's ribbon cable from the board and reconnect then turn the power "ON".

The technical support team at Pach and Company are highly trained and committed to providing you with the best in support and repair services. Our Services are available between 7:30 AM - 4:30 PM Pacific Standard Time.

TOLL FREE (888) 678-7224.

GENERAL FCC REQUIREMENTS

This equipment complies with Part 68 of the FCC rules. Located on the back of your AeGIS 7000NC system is a label that contains, among other information, the FCC registration and ringer equivalence number (REN) for the system. Prior to installing your AeGIS system, please call your telephone company and provide them the FCC registration and REN numbers as well as the telephone number of the line to which you will connect the system.

Your AeGIS system connects to the telephone line by means of a standard jack called the USOC RJ11C. If this type of jack is not available at the location you want to install your AeGIS system, you will need to call your telephone company and order one.

Your AeGIS system connects to the Public Switching Telephone Network via standard-device telephone lines. **IT SHOULD NOT BE CONNECTED TO "PARTY" OR "COIN SERVICE" LINES.**

Should you have any questions about the telephone line you intend to connect your AeGIS system to, or other questions such as how many other devices you can connect to your telephone line, your telephone company will provide you upon request.

In the unlikely event your AeGIS system develops a problem, **IMMEDIATELY DISCONNECT IT FROM YOUR TELEPHONE LINE** to avoid harmful causes to the telephone network.

If repairs are ever needed on your AeGIS system, **ONLY** Pach and Company technician should perform them. Please contact our **Toll Free Technical Service Department at 888-678-7224** for immediate assistance.

Should your telephone company determine that your AeGIS system developed a problem, they may notify you in advance that temporary discontinuance of service may be required. In some cases advance notice isn't practical, so your telephone company will notify you as soon as possible. You will also be advised by your telephone company of your right to file complaint with the FCC if you believe it necessary.

From time to time the Telephone Company may make changes to its facilities equipment, operations, or procedures that could affect the operation of your AeGIS system. If this happens, the Telephone Company will provide advanced notice in order for you to make the necessary modifications to your AeGIS system to maintain uninterrupted service.

AeGIS NPB7000 SERIES QUICK REFERENCE GUIDE

LOCAL PROGRAMMING

- 1) PRESS 0 AND # SIMULTANEOUSLY THEN RELEASE**, the display screen stops scrolling (If the display screen is still scrolling repeat this step again) then enter the valid 4-digit Master Code (default Master Code: 0000). Now, you are in programming mode and see table below to continue.
- 2) IF YOU DO NOT HAVE A VALID MASTER CODE**, open the panel (key must be used) then press and release the "RED BUTTON" on the board and the display shows: **x x x x: 4-digit Master Code**, then press #. Now, you are in programming mode and see table below to continue.

SYSTEM'S OPERATION

TO PLACE A CALL FROM THE AeGIS 7000NC MAIN LOBBY CONTROL PANEL:

- Press 3 to scroll the tenant name from A to Z. o r Press 6 to scroll the tenant name from Z to A, then press #.

TO PLACE A DIRECT CALL FROM THE AeGIS 7000NC MAIN LOBBY CONTROL PANEL:

- Press # , wait for a dial tone then press the 2, 3 or 4 digit directory number.

TO GRANT ACCESS TO VISITOR: Press 9.

TO USE CALL WAITING:

- Press 0 to HOLD the existing call or to switch the two calls.

DISTINCTIVE RINGING:

- Tenant will hear a distinctive ringing if the call comes from the NPB7000 Series.

TO DISABLE REMOTE ACCESS: See Function Code 77.

TO USE THE 4-DIGIT ACCESS CODE: Press * then the 4-digit code.

TO EXTEND THE TALK TIME: Tenant must press the # after the time-out warning beep, the talk time will be extended to another cycle.

KEYPAD LAYOUT

See manual for more detail



FUNCTION CODE TABLE

CODE	DESCRIPTION	CODE	DESCRIPTION
*	Exit the programming (local programming) or clear the existing field	50	Clear the Memory to Factory default.
#	To accept program.	70	Change Talk Time (default is 60 seconds).
00	Replace System Master Code.	71	Change Door Open Interval (default is 12 sec).
01	Program a New Tenant.	72	Change Lock Out Count (default is 3 times).
02	Modify an Existing Tenant Directory.	74	Enable or DIsable Auto Answer (default is enabled)
03	Delete an Existing Tenant Directory.	75	Turn On or Off Key Press Beep (default is On).
04	Clear All Tenants Directory.	76	Turn On or Off Speaker Beep. (default is On).
05	Manual Lock (open) or Unlock (close) Door.	77	Enable or Disable Remote Access (default is enabled).
06	Selecting Directory Digits (2, 3, or 4-digit, default is 3-digit).	78	View Directory by Name.
10	Edit Welcome Screen.	91	Exit from Remote Programming.
46	System Information.		