ICON26 SERIES

OWNERS MANUAL

Telephone entry system with twenty-six line large liquid crystal display

with **BUILT-IN** surge suppression

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To be installed by Qualified Dealers ONLY!

Icon26 manual
version 3.0

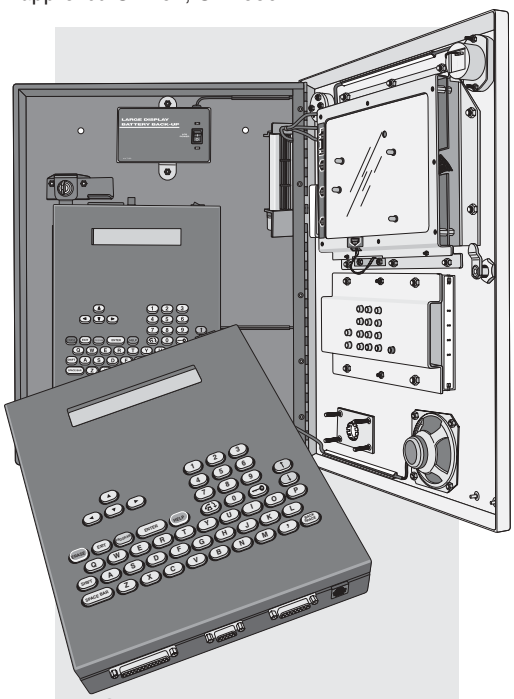
PRODUCT OVERVIEW

STANDARD FEATURES

- Twenty Six line Large LC Directory.
  - – Names listed on Directory in alphabetical order.
  - – 10" LCD screen Sunlight readable and backlit for low light applications.
- Memory capacity: 250, 500, 1000 names.
- User-friendly programmability via built-in alpha-numeric keyboard eliminates the need for user's manual.
- Four character alpha-numeric password required to enter programming mode.
- Programmable Utility key codes for keyless entry.
  - – 60 Utility key codes available per system.
  - – Time zones associated with Utility key codes.
- Programmable real-time clock with leap year & daylight savings compensation.
- 2 programmable 7-day timers for door and gate control.
- Programmable talk time.
- Touch-tones through microphone are ignored by system.
- System mutes tones in speaker during dialing.
- Postal lock capability with programmable strike time.
- Surge protection;
  - – 6000V, 3000A
  - – Power input port
  - – Telephone line port
  - – RS485 ports
  - – Relay ports
  - – Input port
  - – Immune to 25,000V electrostatic discharge.
- Two output relays with independent strike times.
- Relay output for VCR time lapse recorder to record 5 seconds per transaction.
- (Optional) camera for security monitoring (High resolution color)
- 32-Device zone control:
  - – 32 programmable "Groups".
  - – 32 programmable 7-day timer "Templates".
- Standard I/O board with 3 auxiliary inputs controlling 3 corresponding relays.
- Power failure backups:
  - – Battery backup for complete function for 3 hours.
  - – Battery enables dial out, program, & display.
  - – Non-Volatile removable SRAM memory has unlimited write cycles (unlike EEPROM).
  - – Non-Volatile Real Time Clock/Calendar.
- High quality voice communication system with background noise filtering.
- Voice messages (digital) to help & guide user.
- Programmable volume level via modem.
- Non-Volatile PCMCIA memory card
- Two (2) slots for PCMCIA memory cards. Second slot used for file backup and/or (Optional) "Remote Access Communicator Card".
- Double box with built-in full keyboard for data processing.
- By pressing '9' for gate or '5' for door, communication is not lost. Talk time is extended to avoid unpleasant cutoff between visitor and resident.
- Both DTMF tone and rotary dial detection.
- (Optional) modem.
- Remote programming via modem using "Elite Pro" windows based software.
- FCC part 68 ,15 & Canadian DOC approval.
- ETL approved UL 294, UL 1950

SPECIFICATIONS

- Construction: Front and Back Panel: 16 gauge stainless steel. Processor Containment Box: Gold/zinc plated, powder coated aluminum (weather resistant finish)
- Entire system is rain resistant.
- Power Input: 12 Vac, 50VA UL listed transformer.
- Operating Environment:
  - – Temperature: Icon26: -4 F to +135 F
    Icon26-HT: -4 F to +165 F
    (Heater kit available at additional cost.)
  - – Relative Humidity: 5% - 95% non-condensing.
- Dimensions: 16" W X 20 1/2" H X 4 3/4" D
- Shipping Weight: Approximately 40 lbs.
- Display protected by heavy duty,anti-reflection scratch resistant glass.



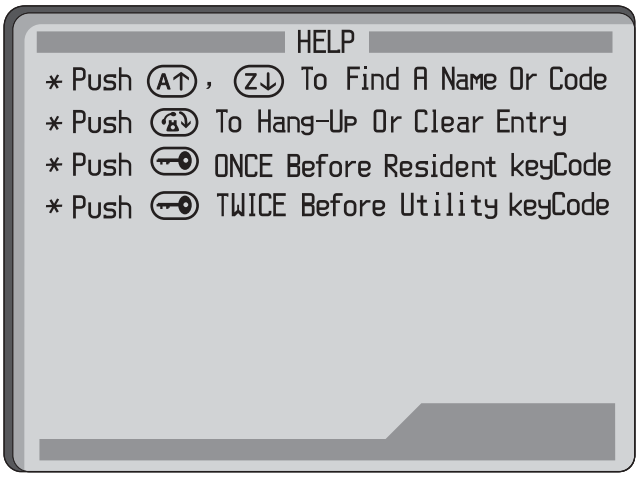
3 Year Warranty
Factory to Dealer

RESIDENT USE

The Icon26 System will start and default back to the ***"Welcome To"*** screen (***fig a.***).

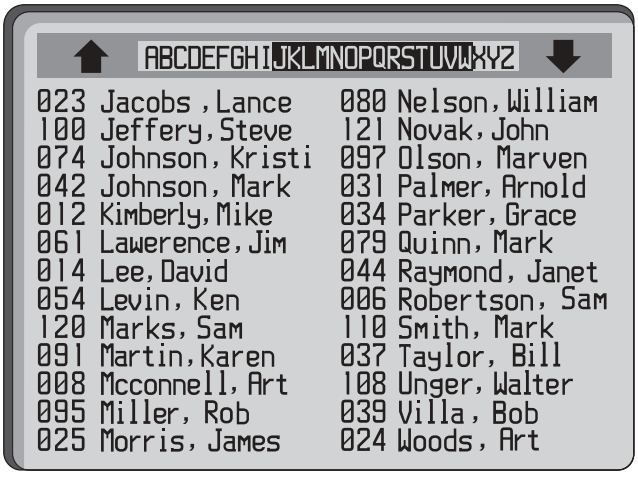
(***fig a.***)

Use the HELP button for assistance. (***fig b.***).



(***fig b.***)

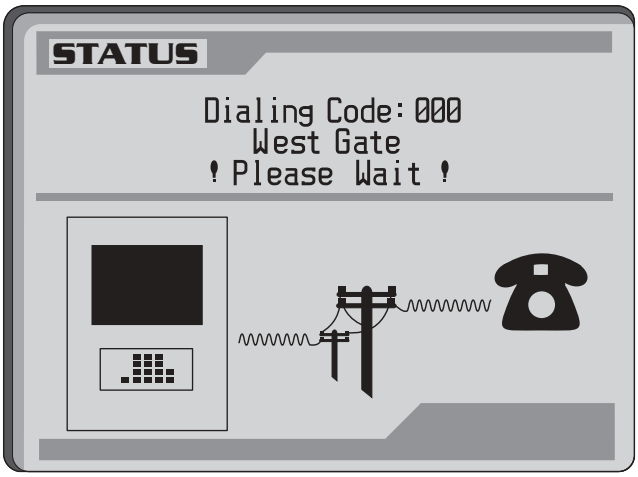
Use the A↑ Z↓ keys to access the residence list in the Icon26's electronic directory as shown in (***fig c.***). The names are listed in alphabetical order by last name.



(***fig c.***)

RESIDENT USE CONTINUED

When the desired name is found, enter the corresponding 3-digit code. The system will dial the number assigned to the resident code entered. (***fig d.***)

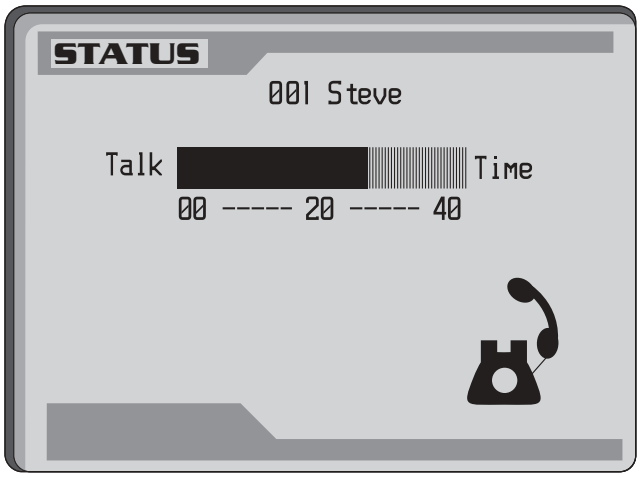


(***fig d.***)

After connecting, the screen will display the ***"Talk Time"*** screen as shown in (***fig e.***) If the resident wants to allow access to the visitor, they simply press (or dial) ***"9"*** for ***vehicular gate*** entrances, or ***"5"*** for ***door or pedestrian gate .***

(***fig e.***)

The ***"Access Granted"*** screen will appear (***fig f.***). If the resident wants to deny access, they simply hang up the phone.

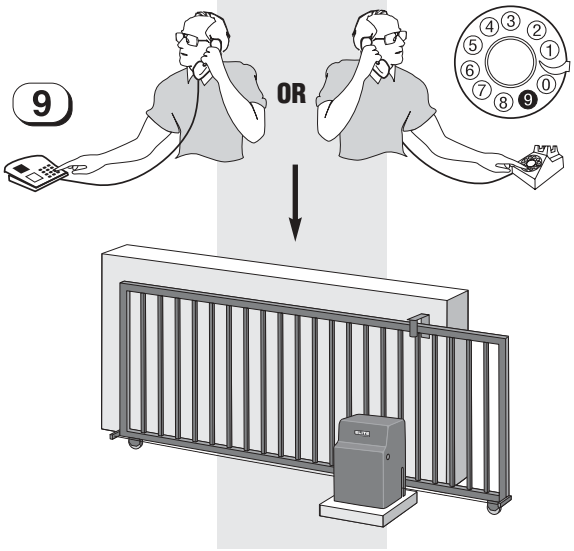


(***fig f.***)

RESIDENT USE CONTINUED

Entry 1 – Vehicular Gate

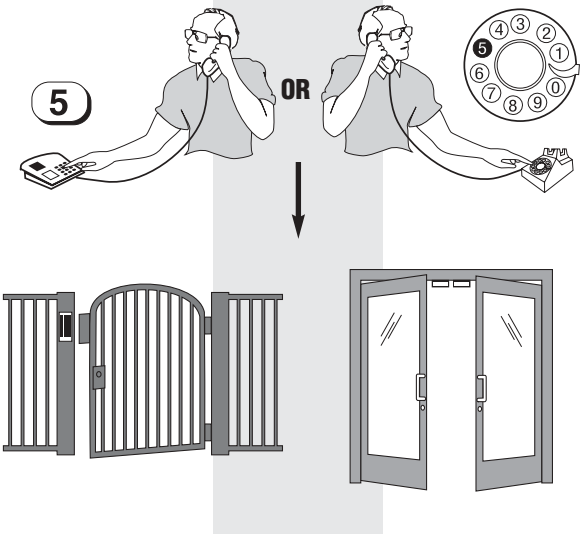
By pressing or dialing the number ***"9"*** on their digital or rotary phone,



The resident will open the vehicular entrance gate.

Entry 2 – Door or Pedestrian Gate

By pressing or dialing the number ***"5"*** on their digital or rotary phone,



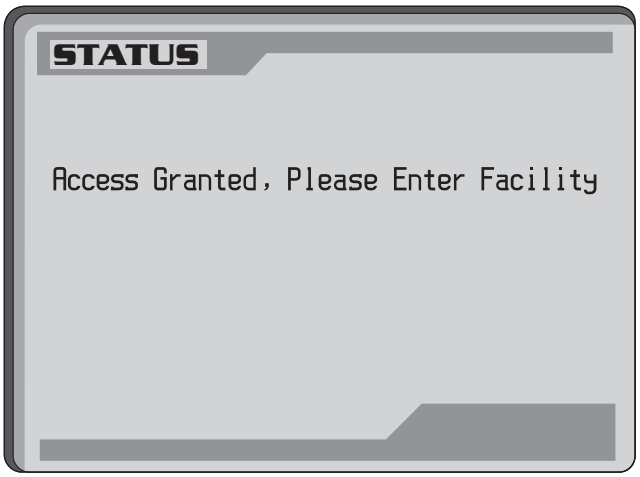
The resident will open the door or pedestrian gate.

USING KEY CODES AND UTILITY CODES

(ACTIVE ENTRY ONLY)

RESIDENT 6-DIGIT KEY CODES

Residents are assigned a 6-digit, personalized key code for accessing the facility. To use the key code assigned, the resident must first push the  key once and enter their key code. The screen will display ***"Access Granted"*** (***fig a.***) and access will be allowed. If an incorrect key code is entered (con't. next page)



(***fig a.***)

RESIDENT USE CONTINUED

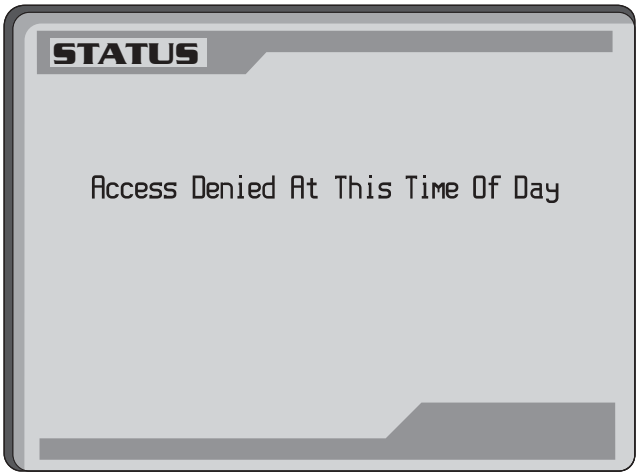
If an incorrect key code is entered, the system will inform the user of the invalid entry (***fig b.***) The resident can then re-enter their key code.

(***fig b.***)

EXAMPLE - KEY CODE 002543 = 0 0 2 5 4 3

INDIVIDUAL UTILITY CODES

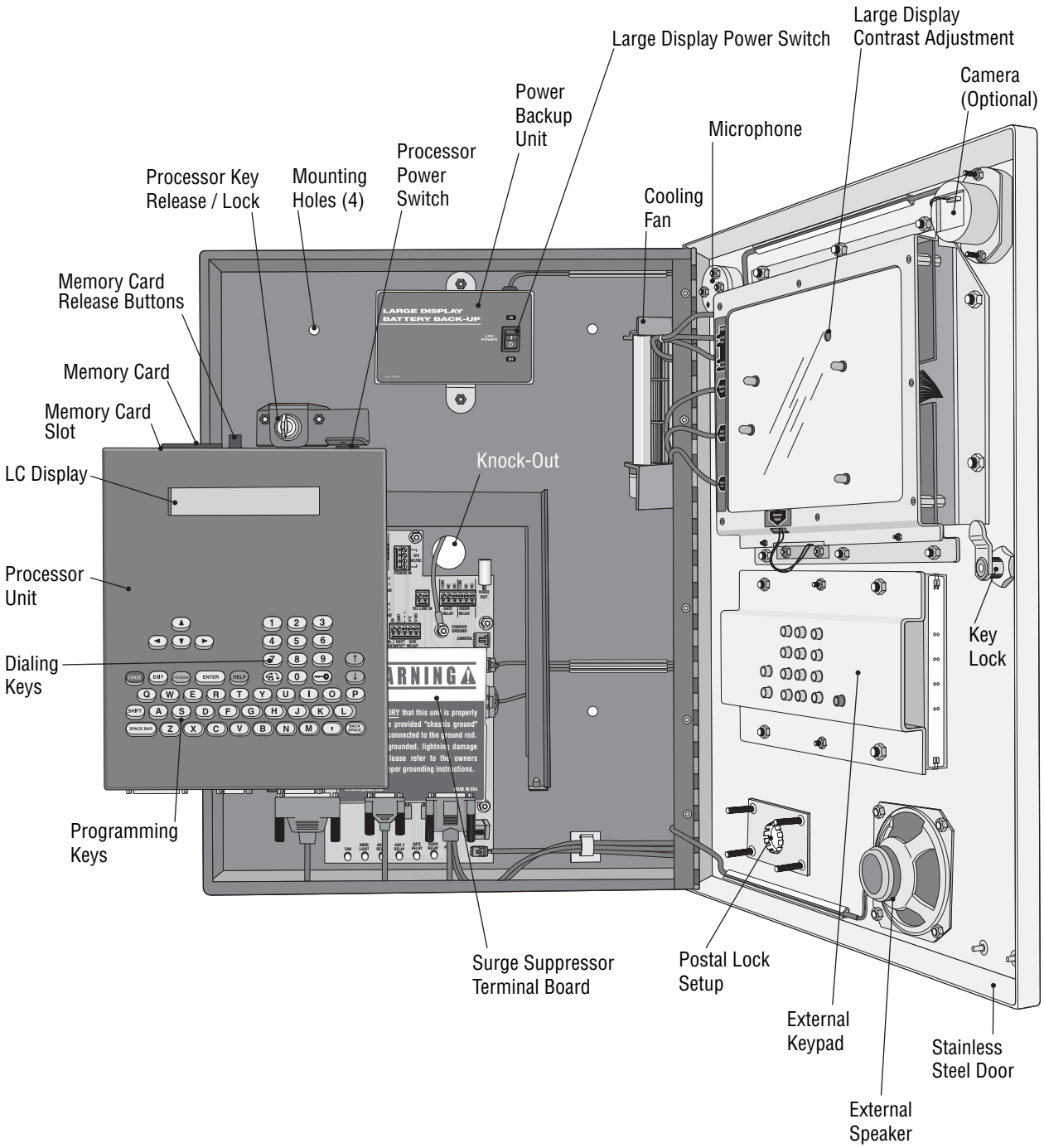
All systems, no matter what the memory capacity, are equipped with 60 different Utility codes. To access the facility within the time zone set, the Utility Company must first press the key ***TWICE*** and then enter their 4-digit code. If it is within the programmed time zone for entry, the screen will display ***"Access Granted"*** (***fig a.***) and access will be allowed. If, however, it is not within the time zone for entry, the display will inform the user and access will not be allowed (***fig c.***)



(***fig c.***)

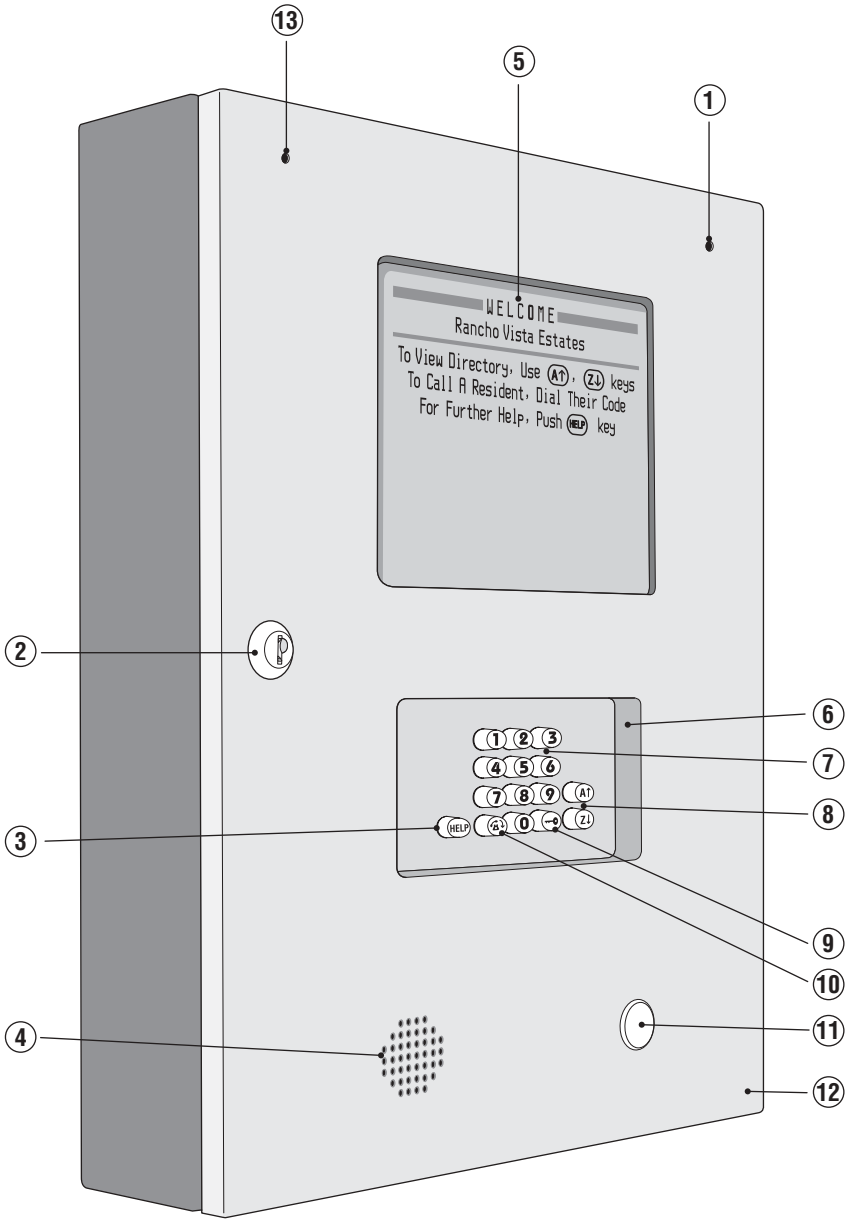
EXAMPLE - UTILITY CODE 8716 = 8 7 1 6

Icon26 FEATURES (INSIDE)



All components and specifications are subject to change without notice.

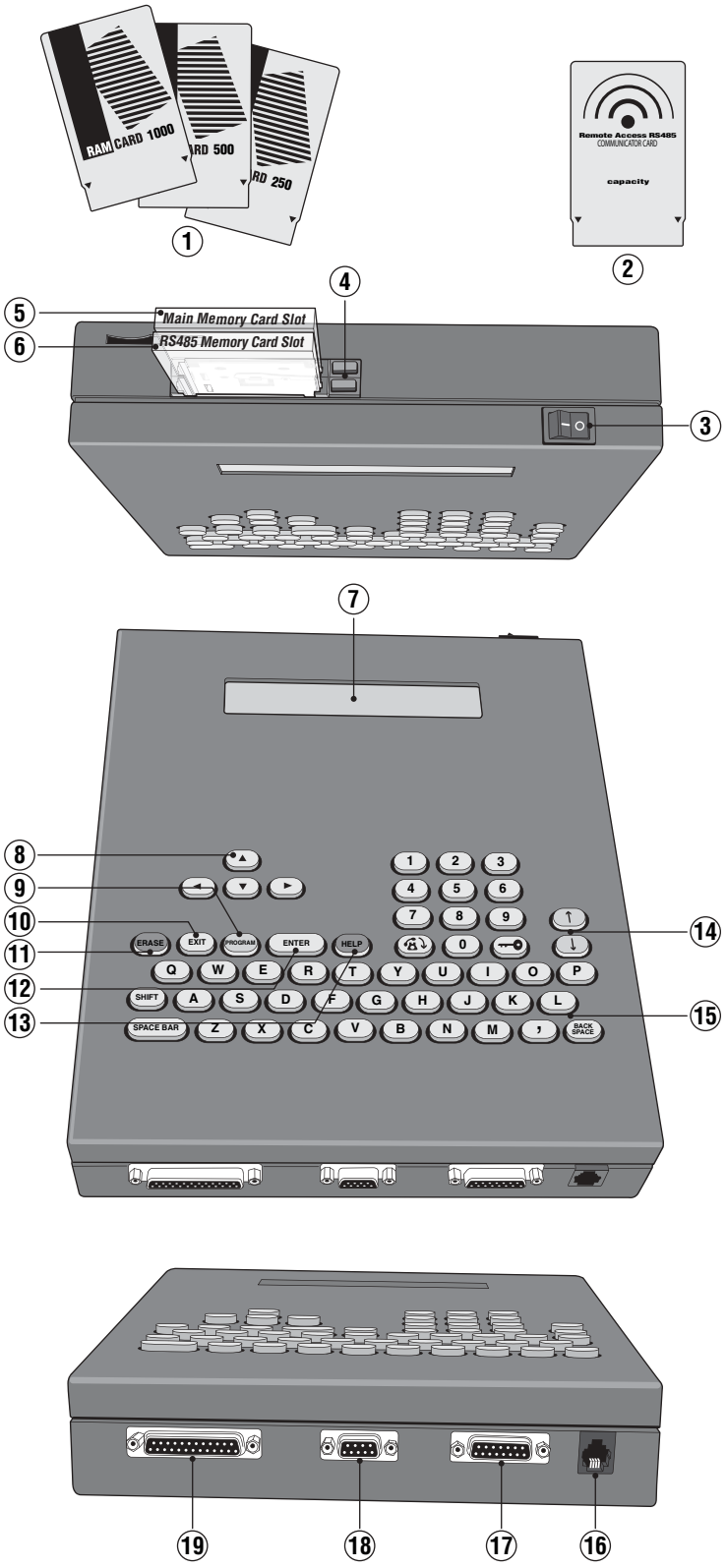
Icon26 FEATURES (OUTSIDE)



1. **EXTERNAL MICROPHONE**
2. **KEY LOCK -** Opens the Processor Containment Box to access the Processor.
3. **HELP KEY -** With digital voice messages to help guide the user.
4. **EXTERNAL SPEAKER**
5. **DISPLAY WINDOW -** Heavy-duty, protective lens.
6. **KEYPAD LIGHTING** - Lights up dialing keys for easy visibility.
7. **PHONE DIALING KEYS** - Used to dial residents / key codes
8. **SCROLL KEYS -** Scrolls through names in alphabetical order on screen.
9. **UNLOCK KEY -** Residents and utility personnel use this key with their key code to open gate.
10. **HANG-UP KEY -** Pressed when user wants to hang up.
11. **ACCESS FOR POSTAL LOCK**
12. **16 GAUGE STAINLESS STEEL DOOR -** Heavy-duty and weather resistant.
13. **CAMERA (OPTIONAL) -** For security monitoring.

All components and specifications are subject to change without notice.

Icon26 FEATURES (PROCESSOR)



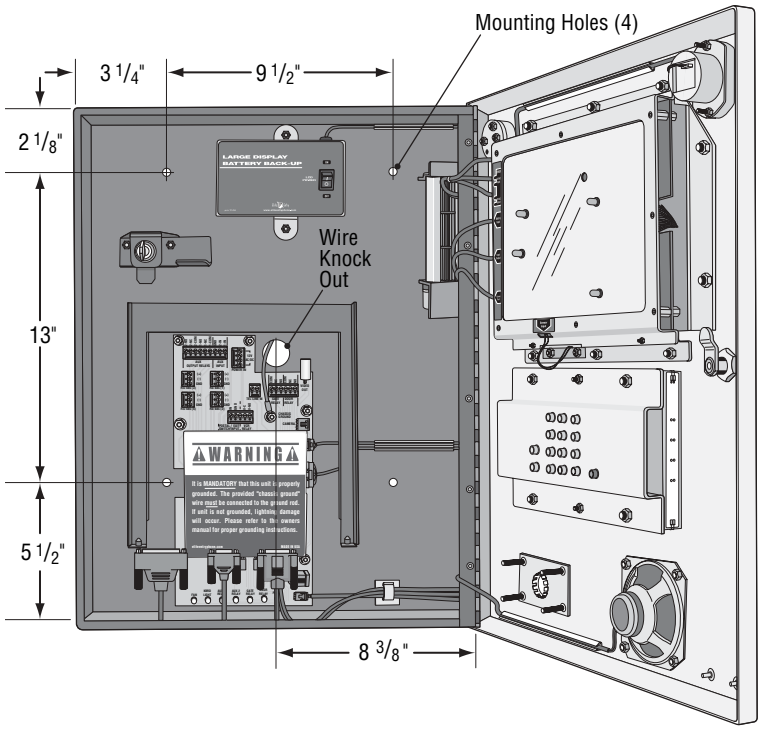
1. **MEMORY CARD -** Stores all programmed information. (Different memory sizes available)
2. **COMMUNICATOR CARD -** Card for RS485 devices.
3. **POWER ON/OFF SWITCH**
4. **CARD RELEASE BUTTONS -** Eject Cards when pressed.
5. **MAIN MEMORY CARD SLOT -** Holds Main Memory Card.
6. **RS485 MEMORY CARD SLOT -** Holds RF Communicator Card or Backup Memory.
7. **TWO LINE, LARGE LIQUID CRYSTAL DISPLAY -** Displays information and instructions, two lines at a time.
8. **DIRECTION KEYS** - Move cursor to desired position within screens.
9. **PROGRAM KEY -** Sets Processor to the program mode.
10. **EXIT KEY -** Press this key to go back to the previous screen / menu.
11. **ERASE KEY -** Erases information screens no longer needed.
12. **ENTER KEY -** Registers information into memory after it is typed.
13. **HELP KEY -** Helps user while in programming or user modes.
14. **SCROLL KEYS -** Scrolls through screens / menus.
15. **KEYBOARD -** Works like standard keyboard to type in information and names.
16. **PHONE JACK (RJ11) -** Connects to surge suppressor terminal board.
17. **INPUT/OUTPUT CONNECTOR -** Connects to surge suppressor terminal board.
18. **COMMUNICATION PORT -** Connects to surge suppressor terminal board.
19. **PARALLEL PORT -** To communicate with Large Display Controller Board.

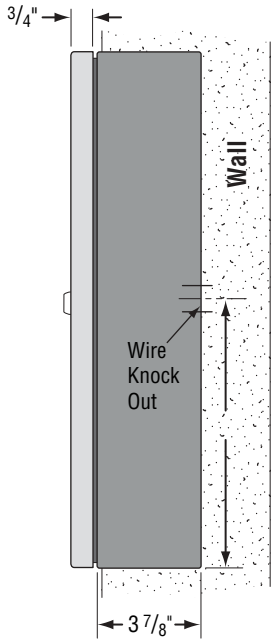
All components and specifications are subject to change without notice.

MOUNTING INSTALLATION

Installation on Wall

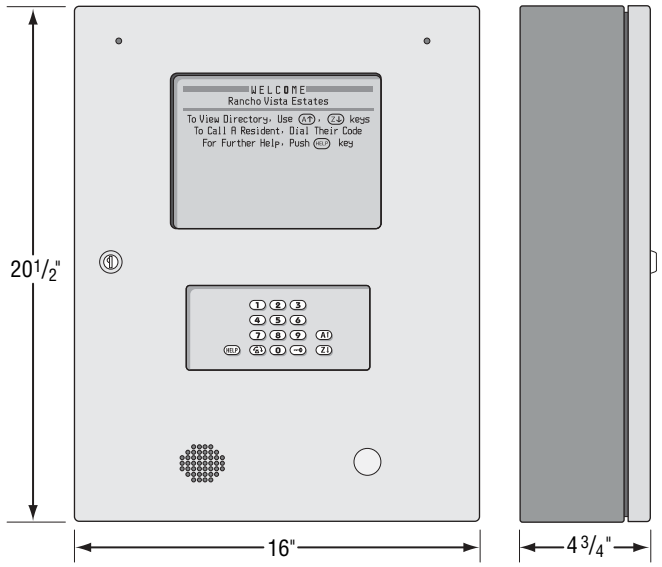
Remove the Processor Unit from the Processor Containment Box and bolt the Processor Containment Box to the recess in the wall using the four mounting holes. Feed the power and phone lines through the knockout in the back of the box to make all wire connections.

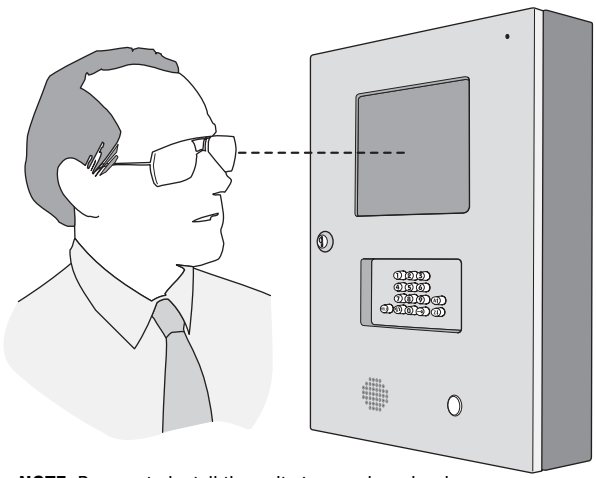




Front View

Side View



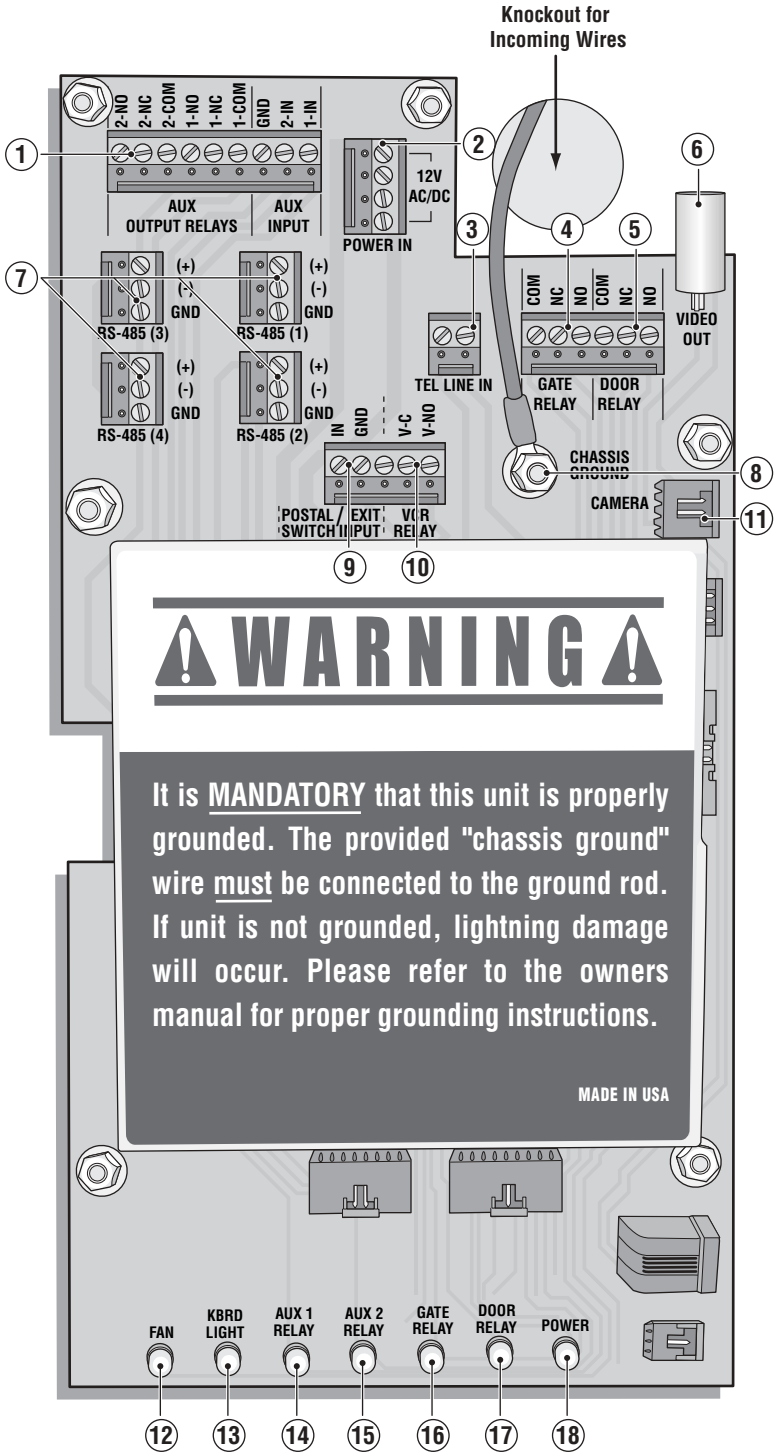


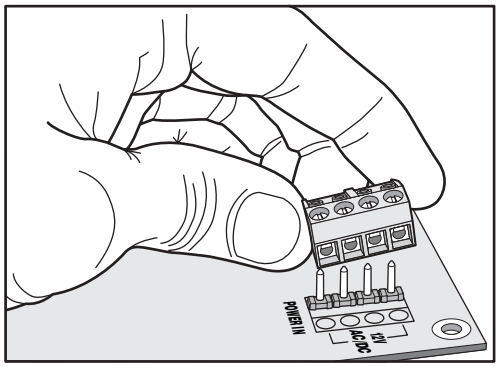
NOTE: Be sure to install the unit at normal eye level

Be sure to read and follow all Chamberlain Elite instructions before installating and operating any Chamberlain Elite products. Chamberlain Elite is not responsible for improper installations or failure to comply with local building codes.

All components and specifications are subject to change without notice.

DESCRIPTION OF SURGE SUPPRESSION TERMINAL BOARD

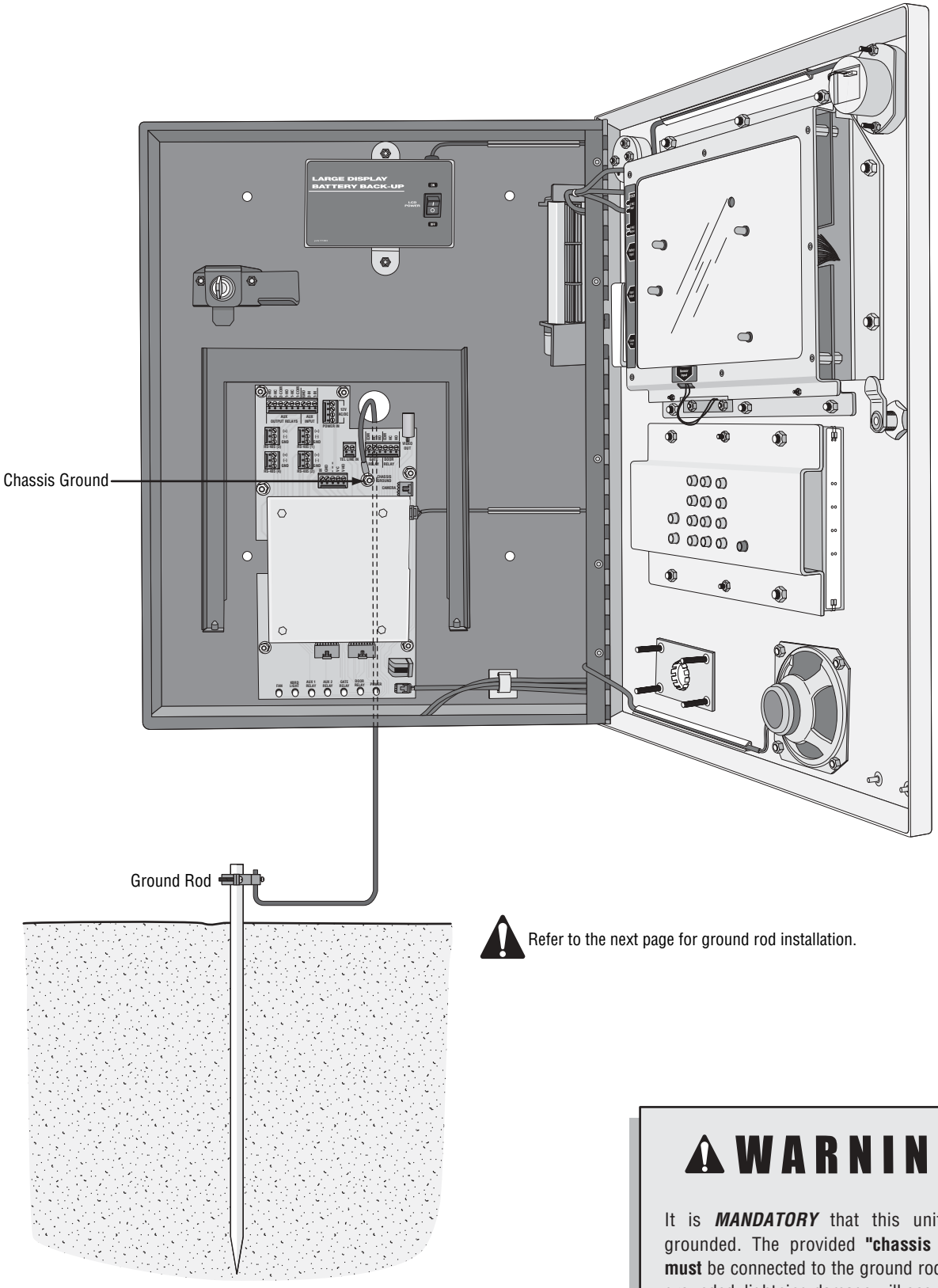




Removable Screw Terminal Connectors for Easy Wiring.

1. **AUX OUTPUT RELAYS/AUX INPUT:** Inputs can be used for Postal Lock and/or Exit switch operations.
   Auxiliary Input 1-IN activates auxiliary Relay 1
   Auxiliary Input 2-IN activates auxiliary Relay 2
2. **POWER IN:** 12 Vac to the Entry Phone.
3. **TELEPHONE LINE:** Tip and Ring Connection.
4. **GATE RELAY:** For use with gate operator to control access through main vehicular gate.
5. **DOOR RELAY:** For allowing access through pedestrian gate or door.
6. **VIDEO OUT:** Camera video output standard BNC cable connection for use with time lapse VCR. Each time access is granted, the VCR relay is activated for 5 seconds, allowing recording of all access to facility.
7. **RS485:** Connect to corresponding RS485 terminals (-, +, GND) of remote security devices.
8. **CHASSIS GROUND:** Entry Phone ***MUST*** be properly grounded. Refer to *"Grounding the Unit"* and *" Earth Ground Rod Installation"* sections.
9. **POSTAL SWITCH/EXIT SWITCH :** Connection of a postal lock or exit switch.
10. **VCR RELAY:** For use with time lapse VCR. Each time access is granted, the VCR relay is activated for 5 seconds, allowing recording of all access to facility.
11. **CAMERA PORT:** For optional camera video input.
12. **FAN LED:** Indicates fan is activated.
13. **KEYBOARD LIGHT LED:** Indicates keyboard lights have power.
14. **AUX 1 RELAY LED:** Indicates auxiliary 1 relay is activated.
15. **AUX 2 RELAY LED:** Indicates auxiliary 2 relay is activated.
16. **GATE RELAY LED:** Indicates gate relay is activated.
17. **DOOR RELAY LED:** Indicates door relay is activated.
18. **POWER LED:** Indicates Phone system has 12 Vac power present.

GROUNDING THE UNIT



Refer to the next page for ground rod installation.

⚠ WARNING ⚠

It is ***MANDATORY*** that this unit is properly grounded. The provided **"chassis ground"** wire **must** be connected to the ground rod. If unit is not grounded, lightning damage will occur.

EARTH GROUND ROD INSTALLATION

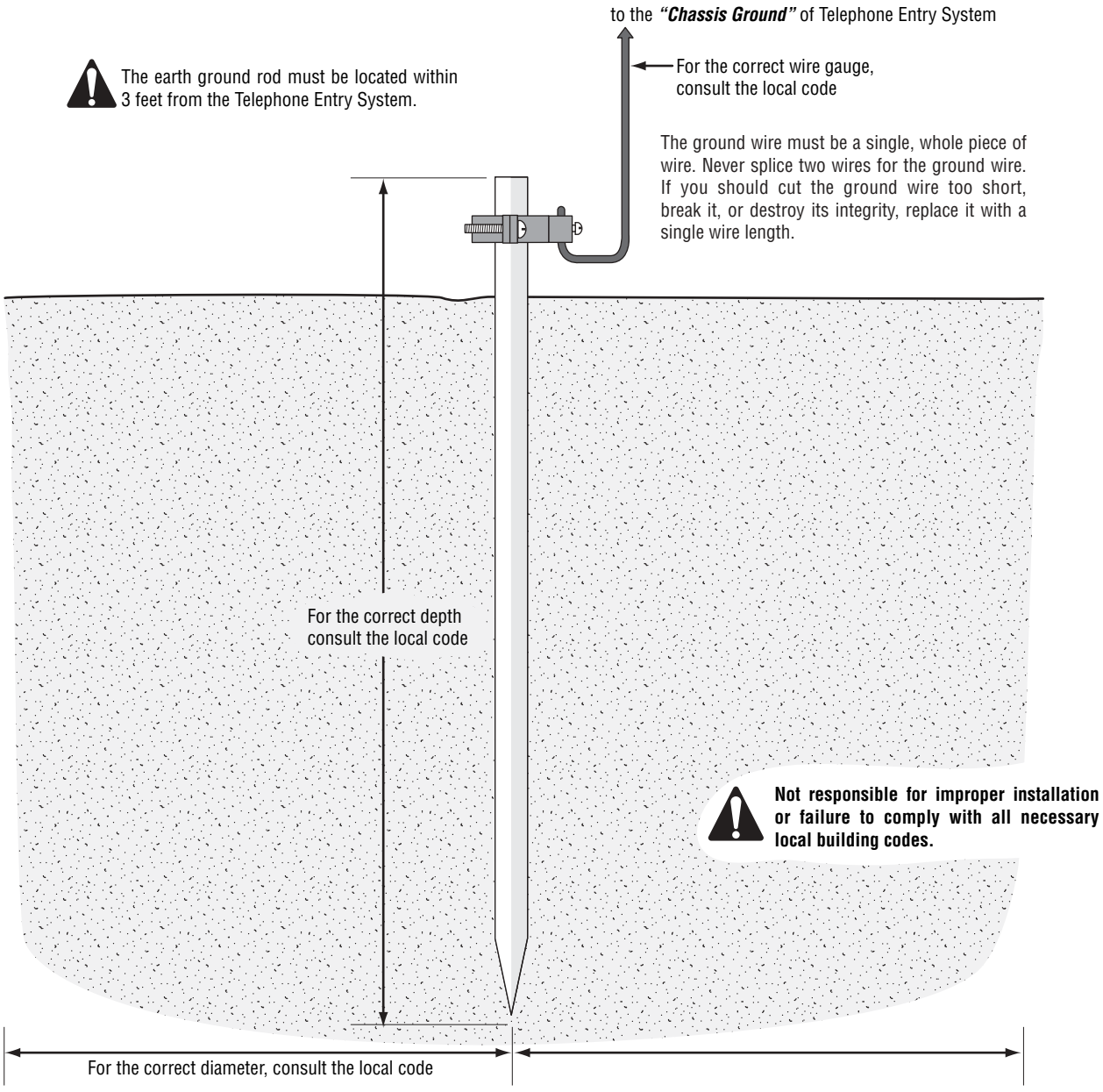
Proper grounding gives an electrical charge, such as from an electrical static discharge or a near lightning strike, a path from which to dissipate its energy safely into the earth.

Without this path, the intense energy generated by lightning could be directed towards the Telephone Entry System. Although nothing can absorb the tremendous power of a direct lightning strike, proper grounding can protect the Telephone Entry System in most cases.

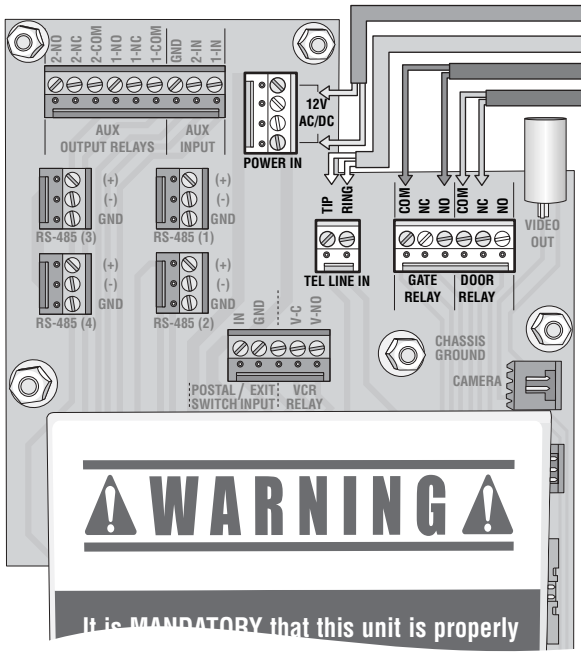
The type and length of earth ground rods vary by region. Contact the building inspector's office in the municipality where you plan to install the unit for correct grounding materials and installation procedures.

Before digging, contact local underground utility locating companies.

Avoid damaging gas, power, or other underground utility lines.



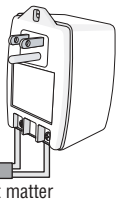
BASIC WIRING DIAGRAM



TIP
RING

Telephone Line:

MUST be a dedicated line for the Telephone Entry System unit ***ONLY!***

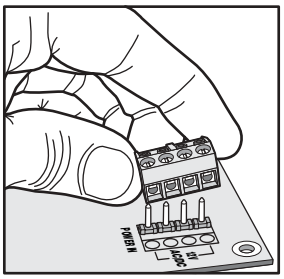


Transformer
12 Vac (50VA)
(Provided)

Polarity does not matter

Use 18 AWG wire where possible

Wire Gauge	12 Vac (50 VA) Maximum Distance (Provided)	16.5 Vac (50 VA) Maximum Distance (Optional)
24 AWG	30 Ft	50 Ft
22 AWG	45 Ft	85 Ft
20 AWG	75 Ft	135 Ft
18 AWG	125 Ft	220 Ft
16 AWG	185 Ft	345 Ft

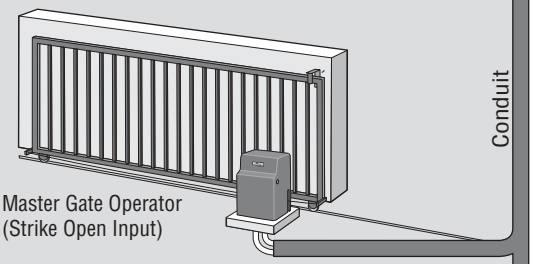


Removable Screw Terminal Connectors for Easy Wiring.

Entry 1 Gate Relay Terminal Connection

Normally Open

Vehicular Gate



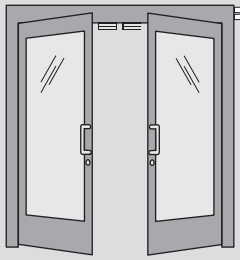
Master Gate Operator
(Strike Open Input)

Conduit

OR

Access Door

Solenoid

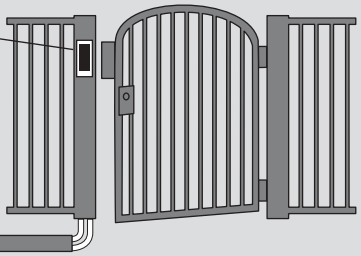


Dial 9

Entry 2 Door Relay Terminal Connection

Normally Closed

Pedestrian Gate

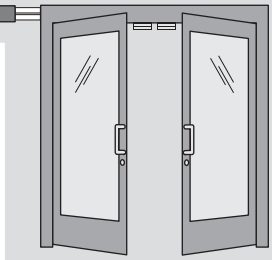


Conduit

OR

Entry Door

Maglock

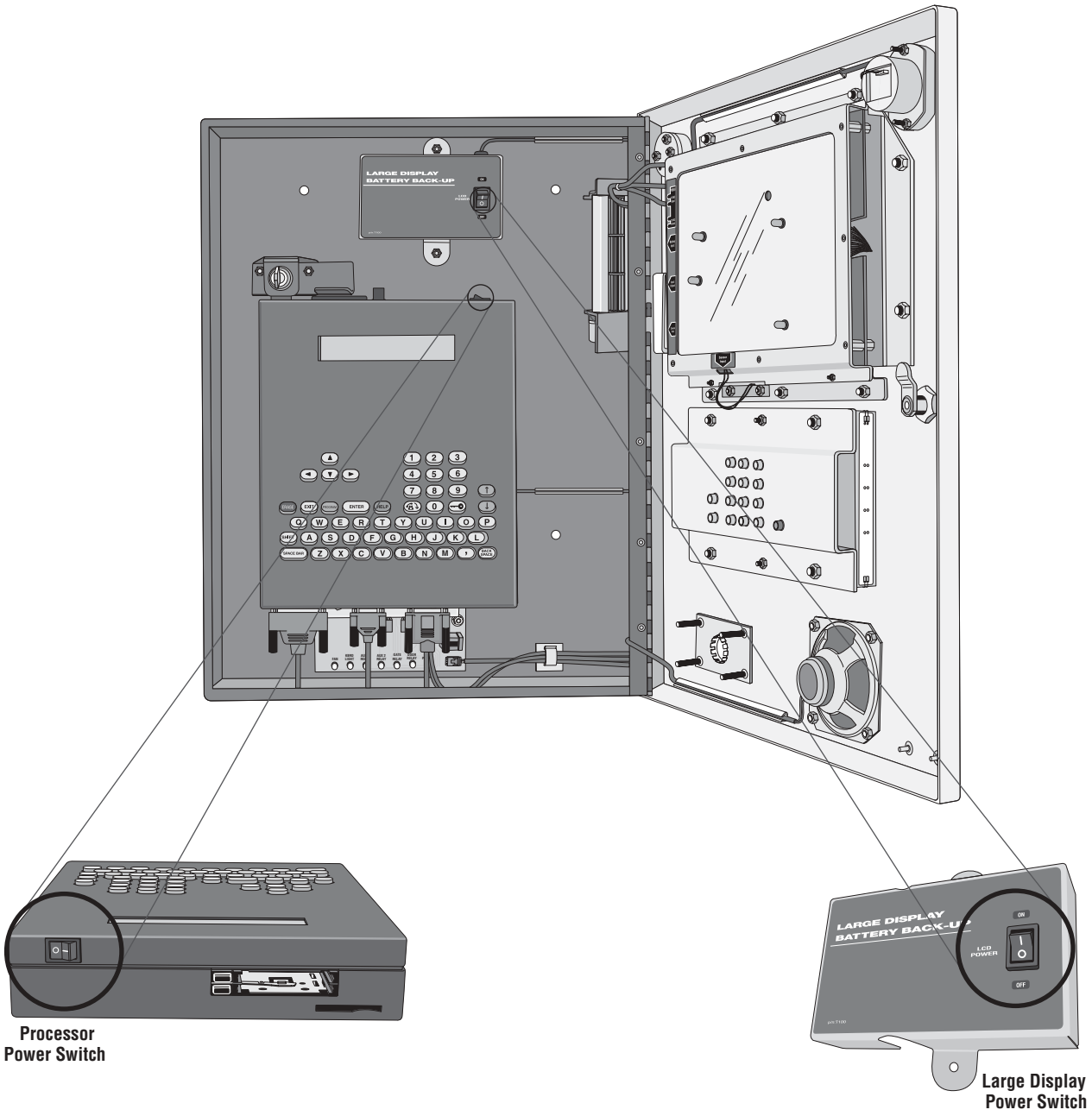


Dial 5

Connect two wires to the *main* vehicular gate operator or door. The gate relay will be activated by either pressing 9 on the resident's phone, entering a utility or resident keycode, *Gate* 7-day timer or ElitePro remote programming software.

Connect two wires to the *secondary* gate or door. The door relay will be activated by either pressing 5 on the resident's phone, *Door* 7-day timer or ElitePro remote programming software.

POWER-UP Icon26



1. Turn on large display using the “LCD power” switch on the battery back-up module.

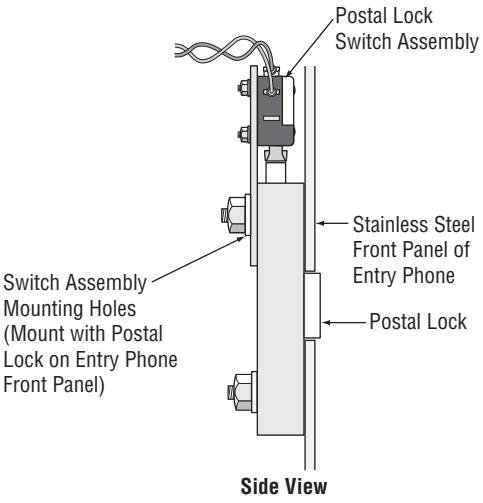
2. Turn on processor using the power switch on the top right.

3. To turn unit off, turn off both processor and large display battery back-up module.

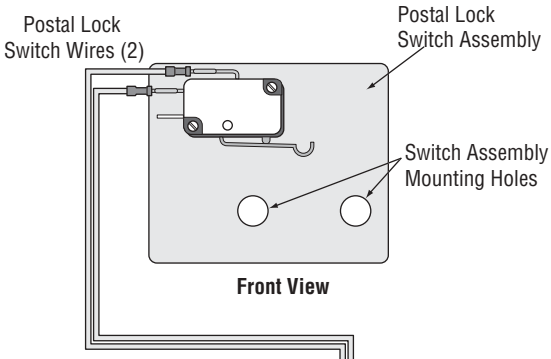
Be sure to read and follow all Chamberlain Elite instructions before installing and operating any Chamberlain Elite products. Chamberlain Elite is not responsible for improper installations or failure to comply with local building codes.

POSTAL LOCK INSTALLATION

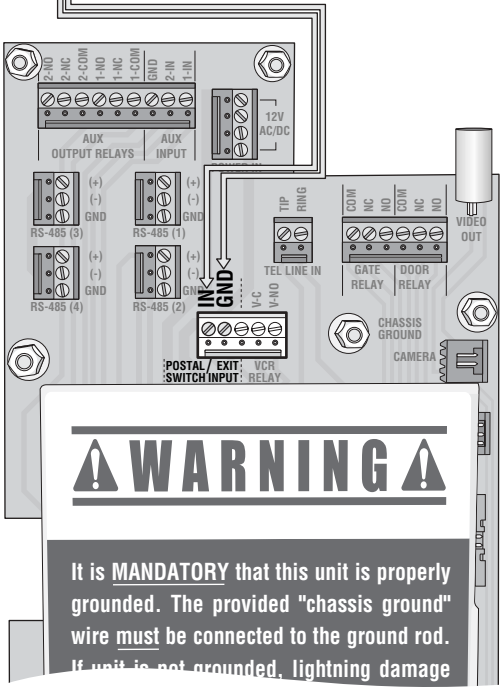
These parts are used only when postal access to your facility is required. The postal lock mechanism must be obtained by application to your local post office.

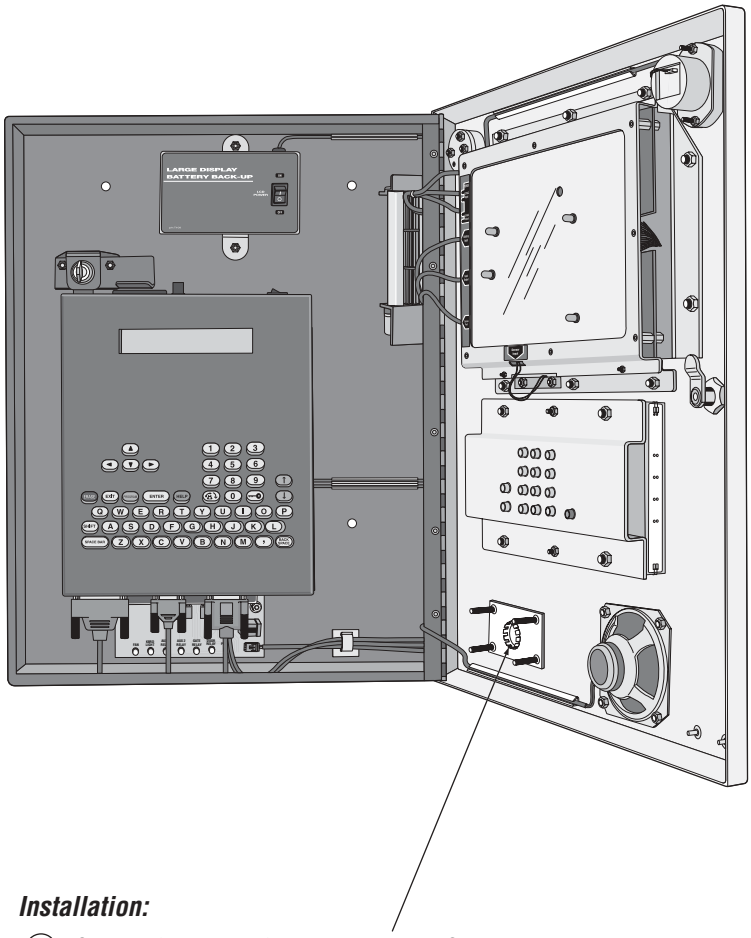


Side View



Front View





Installation:

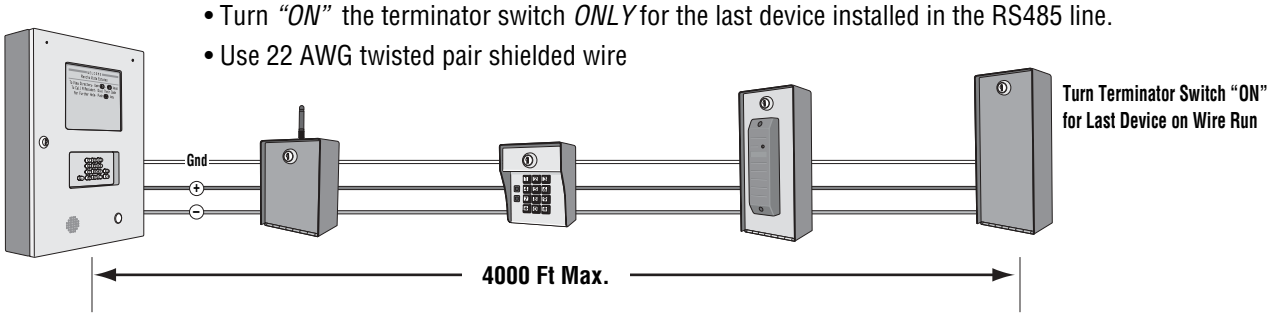
1. Open the front panel of the Telephone Entry System and remove the hole plug.
2. (Retain nuts and washers) Install the postal lock with the sliding bolt oriented away from the speaker.
3. Install the enclosed plate end switch assembly over the sliding bolt so that when the bolt is extended it will activate the switch as shown in the diagram.
4. Fasten by using the enclosed flat washer, lock washer, and nut on each of the four studs. Adjust the plate and switch location as the nuts are tightened to ensure switch activation when the bolt is extended.
5. Connect the two wires from the postal lock switch to the postal/exit connector on the surge suppressor terminal board. Note that polarity or color coding is not required. When the postal lock is engaged, the system's gate relay is activated for a duration according to the programmed ***"Gate Strike Time"***.
6. Test operation by activating the lock. Ensure that full extension of the sliding bolt will not bend or break the switch.

RS485 WIRING CONFIGURATIONS

Configuration #1 *"Daisy Chain" wiring configuration*

(Recommended method for superior data transmission)

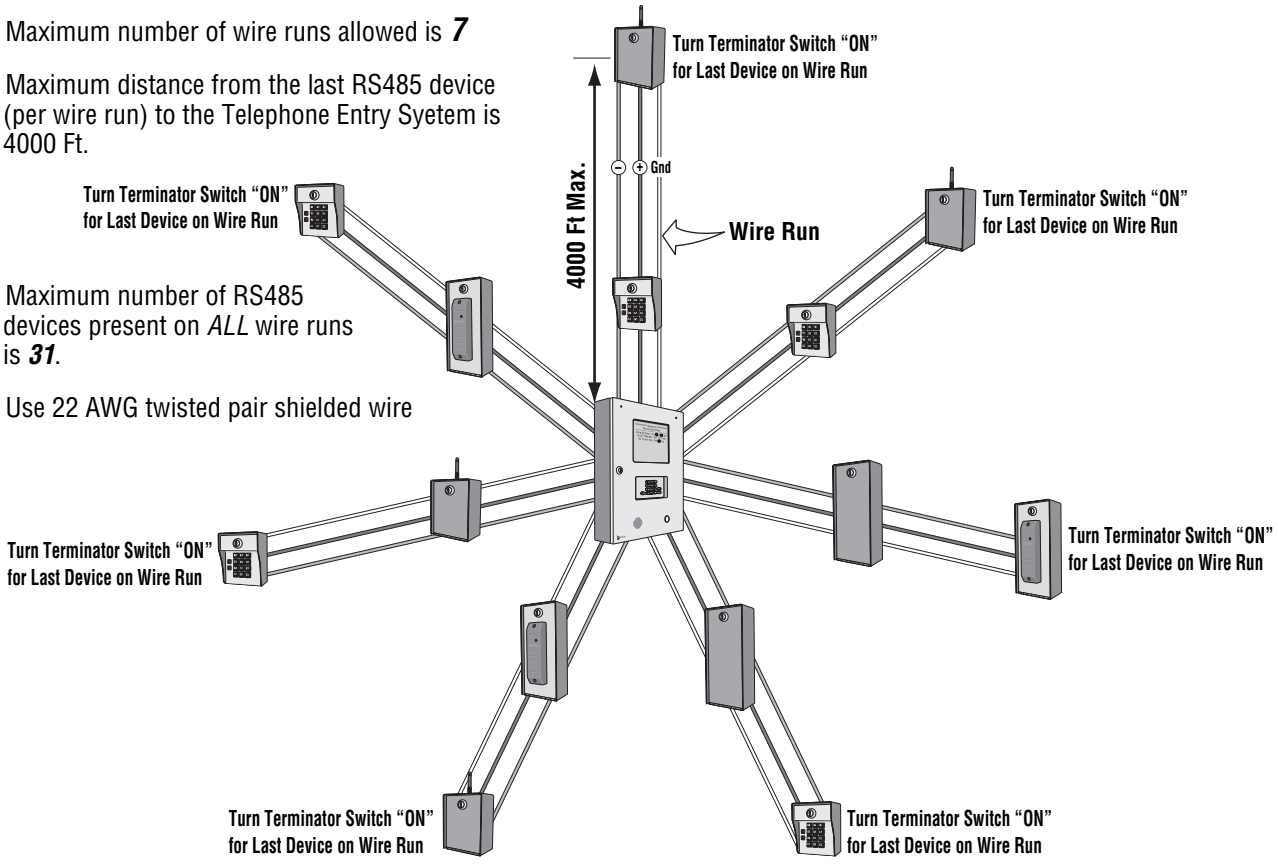
- Up to ***31*** RS485 devices supported
- Maximum distance from the last RS485 device to the Telephone Entry System is 4000 Ft.
- Turn *"ON"* the terminator switch *ONLY* for the last device installed in the RS485 line.
- Use 22 AWG twisted pair shielded wire



Each RS485 device must have a unique "Device ID Number" set by using the rotary switches on the device. (Refer to specific RS485 Instruction sheets).

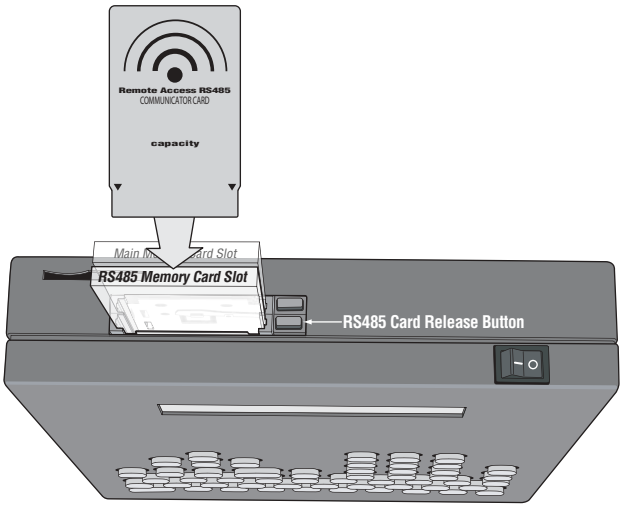
Configuration #2 *"Star" wiring configuration*

- Maximum number of wire runs allowed is ***7***
- Maximum distance from the last RS485 device (per wire run) to the Telephone Entry Syetem is 4000 Ft.
- Maximum number of RS485 devices present on *ALL* wire runs is ***31***.
- Use 22 AWG twisted pair shielded wire

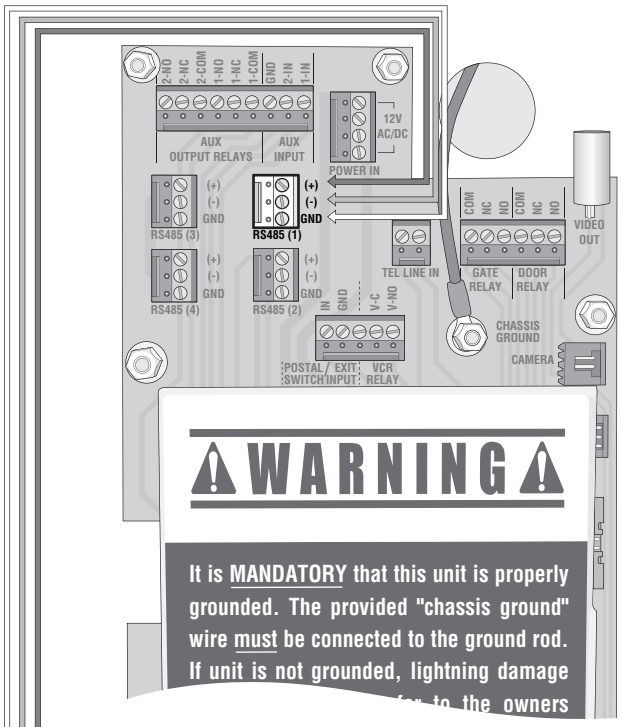


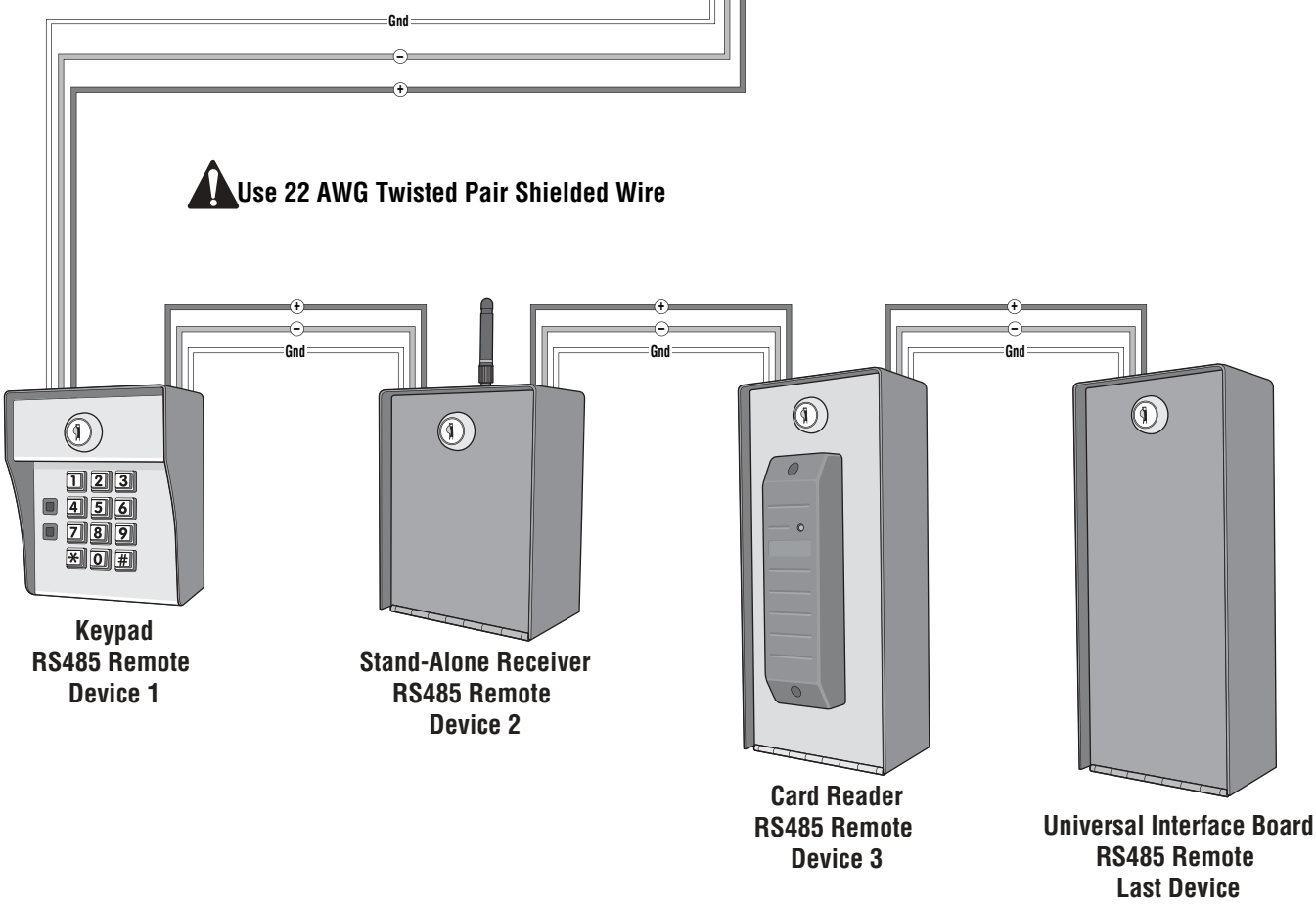
Each RS485 device must have a unique "Device ID Number" set by using the rotary switches on the device. (Refer to specific RS485 Instruction sheets).

RS485 DAISY CHAIN CONNECTION EXAMPLE

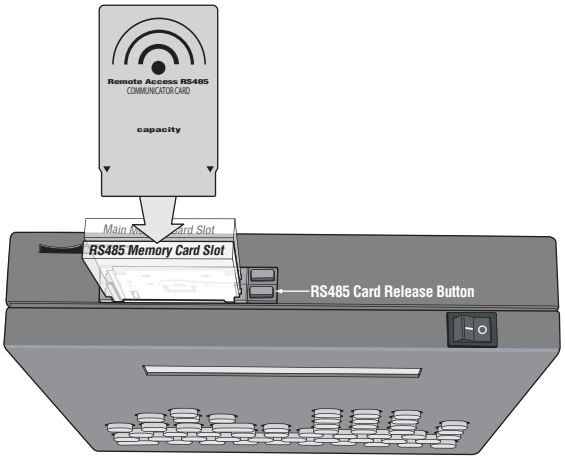


NOTE: To support RS485 devices you must insert the RF communicator card in the RS485 memory card slot ***BEFORE*** turning on the processor.





RS485 STAR CONNECTION EXAMPLE

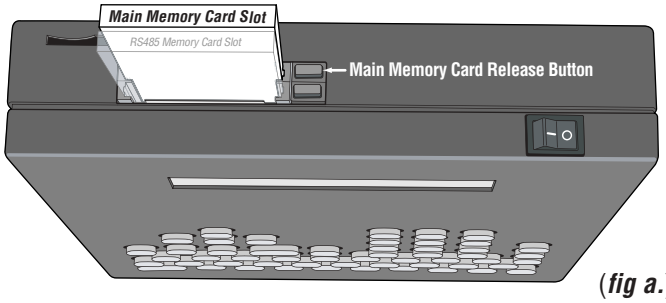


NOTE: To support RS485 devices you must insert the RF communicator card in the RS485 memory card slot ***BEFORE*** turning on the processor.

Use 22 AWG Twisted Pair Shielded Wire

MEMORY CARD INSTALLATION

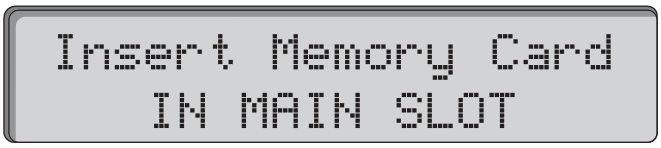
Turn power on and insert Memory Card into Main Memory Card Slot (Main Memory Card in back slot, Backup Memory Card in front slot.) (***fig a.***) Push it all the way in until card "snaps" into place and the release button pops up. The screen should display the ***"Welcome Screen"*** (***fig b.***)



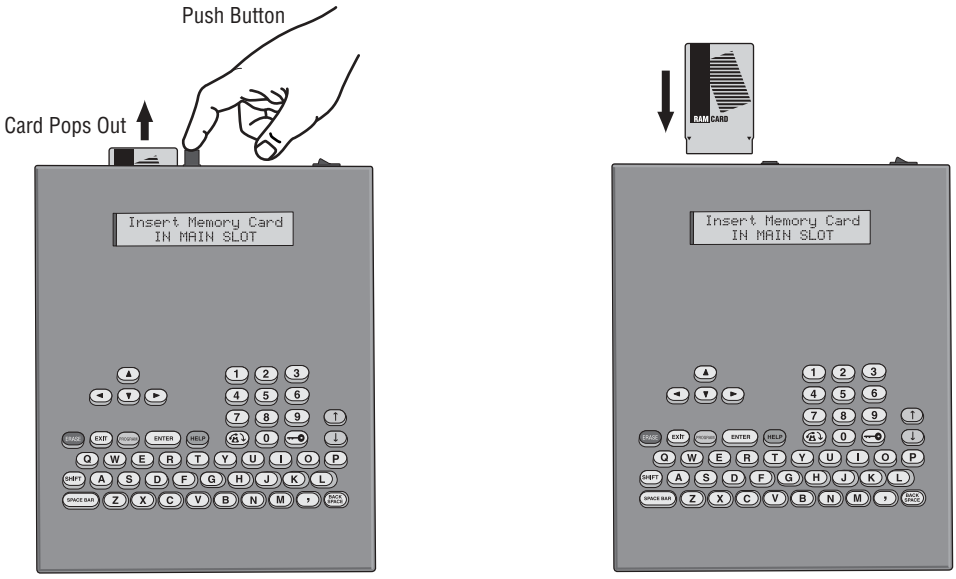
(***fig a.***)

(***fig b.***)

If the screen continues to display the ***"Insert Memory Card"*** screen (***fig c.***) then eject memory card by pressing the corresponding release button down and reinsert Memory Card into main slot (***fig d.***). Otherwise continue with programming.



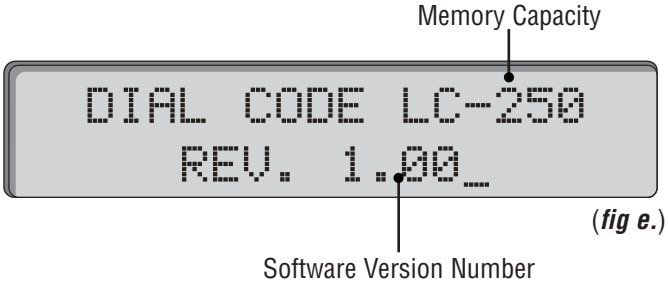
(***fig c.***)



(***fig d.***)

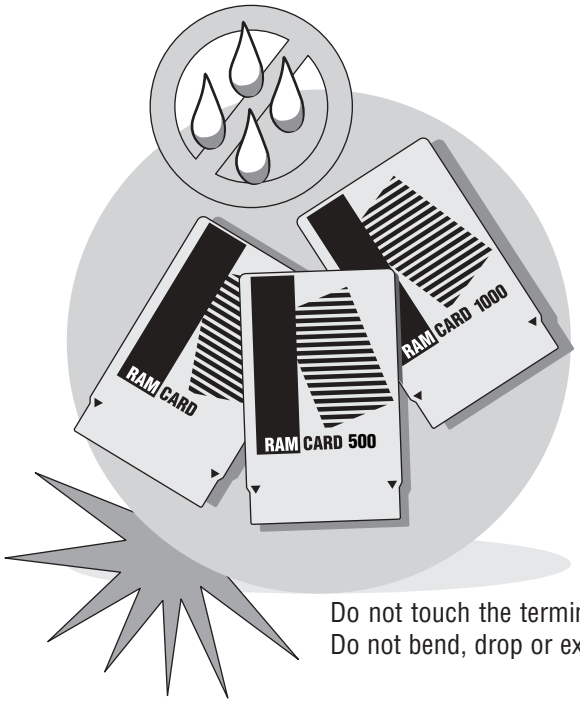
VIEWING THE SOFTWARE VERSION

To view the memory capacity of the system or to view the software version currently running on the system in operation an information screen is accessible on all Dial Code systems for easy reference. Turn power off and insert Memory Card in Main Memory Slot. Turn power on and the information screen should display as seen in (***fig e.***)



(***fig e.***)

WARNINGS AND PRECAUTIONS



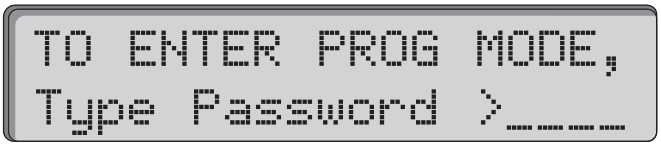
Do not touch the terminals on the RAM Cards. Do not bend, drop or expose to impact.

The Telephone Entry System is only water resistant when the Stainless Steel Door is closed and locked. Do not expose the Processor Unit or the open Processor Containment Box to rain, snow, or harsh weather conditions. Do not drop the Processor or expose it to impact.

PROGRAMMING THE PROCESSOR

ENTERING THE PROGRAM MODE

When the Processor unit is turned on and the PROGRAM button is pressed, the screen will display:



Type in the factory present password (7777). Press ENTER. The Program Selection Screen will display:

If you enter the wrong password, the screen will prompt you to try again:

Press R to retry entering your password. Press EXIT to quit the programming menu.

Pressing the HELP button will provide users with a help message.

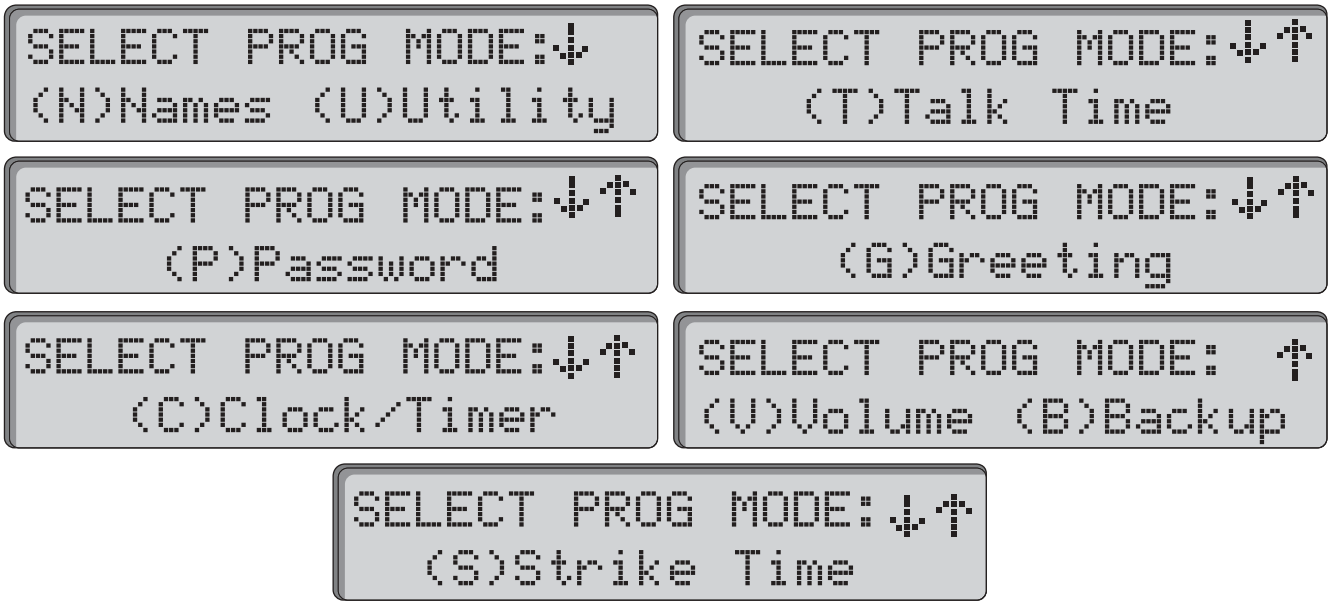
SELECTING PROGRAM MODE

LIST OF PROGRAM MODES:

1	Names	N	Program or edit Resident Names	page 25-27
2	Utility	U	Program or edit Utility Codes	page 28
3	Password*	P	Program New Password (recommended)	page 29
4	Clock/Timer	C	Program System Clock and Seven Day Timers	pages 30-32
5	Strike Time	S	Program relay output time (for 2 relays)	page 33
6	Talk TIme	T	Program length of Talk Time	page 33
7	Greeting	G	Program custom Welcome Screen Message	page 34
8	Volume	V	Program Volume level	page 34
9	Backup	B	Backup of memory card	page 35

*We recommend you customize your password to avoid unauthorized programming (see “Password” section)
To select a Program Mode, press the corresponding letter from one of the nine options.

Use the ↑ ↓ keys to scroll through the nine different Program Modes.



Pressing the **HELP** *button will provide users with a help message.*

IMPORTANT NOTE: *While in the help screens, programming will be disabled.*
To continue programming, press the **EXIT** *button to exit the help screens first.*

RESIDENT INFORMATION

STEP 1 In the Program Selection Screen (***fig a.***), Press the **N** key. The screen will display (***fig b.***):

(***fig a.***)

(***fig b.***)

STEP 2 You now have three options:

To program by name, press the **N** key and the first empty code will display.

OR

To program by code, enter a three digit code* and press the **ENTER** key.

OR

To view or edit an existing name or code, use the ↑ ↓ keys to scroll through Directory.

* The unit will only accept codes within it's range - depending on memory capacity.

STEP 3 Type in the desired Resident name, LAST name first, followed by the first name (***fig c.***). If the code you have selected is already used, there will be a name already. You can edit the name by simply typing over it. Press the **ENTER** key to complete the entry. You may also use the ◄ ▲ ▼ ► keys to move the cursor within a code.

Resident code

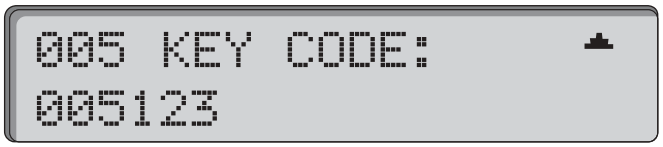
Resident name

(example - ***fig c.***)

(example - ***fig d.***)

STEP 4 Type in the desired Resident phone number (***fig d.***). If you need to enter an area code refer to the area code page. Press the **ENTER** key to complete the entry. The ***"KEY CODE"*** screen will be displayed. (***fig e.***)

STEP 5 An individual six digit Resident Key code may be assigned to each resident . Residents can use their Key Code to access the premises.



(example - ***fig e.***)

Assignment of Resident Key Codes is optional. The first three digits of the Key Code is the assigned Directory Code. Assign the last three digits (numeric characters only) to create an individual Key Code. If using the RF Card, proceed to Step 6 (***fig e.***). Press the **ENTER** key.

TRANSMITTER/CARD PROGRAMMING

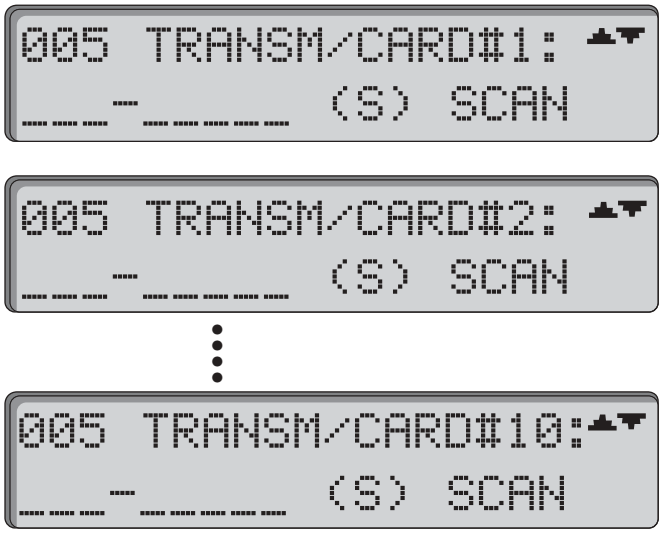
STEP 6 To complete entry, press the EXIT key to return to the program selection screen.

To program RF devices (i.e. transmitters/cards etc.) continue on to Step 7.

NOTE: *To enable the transmitter/card programming feature, you must insert the communicator card in the "backup" slot* ***before*** *you turn on unit. (refer to "Memory Card Installation" section)*

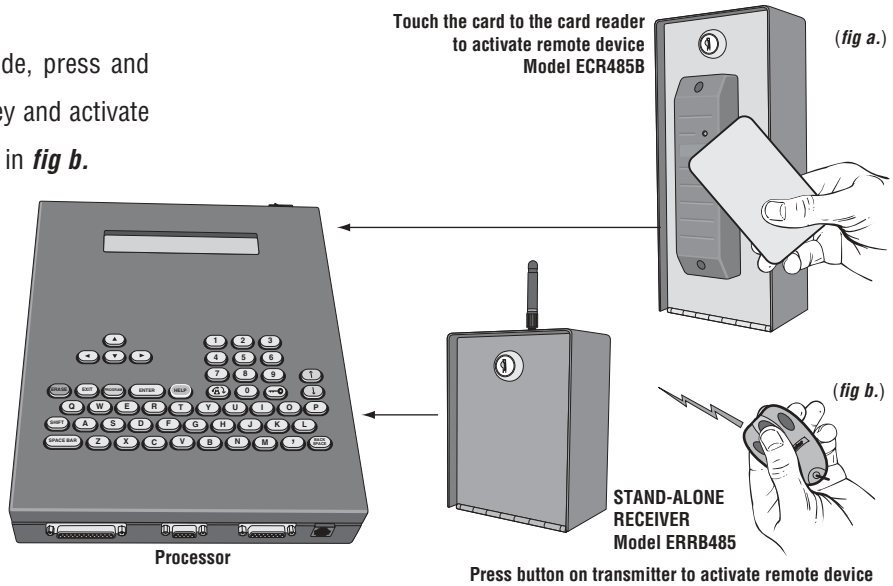
STEP 7 Use ▼ ▲ keys to view and program up to 10 transmitter or card codes associated to the directory code.

To program a transmitter or card code you may enter the code manually using the keypad or you may scan the transmitter/card code.



STEP 8 To scan a card code, press and release the S key and activate the card as shown in ***fig a.***

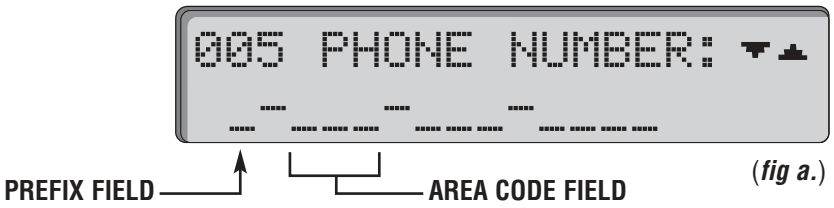
To scan a transmitter code, press and release the S key and activate the transmitter as shown in ***fig b.***



STEP 9 Repeat steps 7 and 8 for up to ten devices per directory code. After the last device has been programmed, press EXIT or ENTER key to return to the program selection screen.

NOTE: The time zones and restrictions associated with transmitter/card codes can only be programmed remotely using the EMS modem software.

AREA CODES



(***fig a.***)

In special applications, it is necessary to enter area codes for Resident Phone Numbers. Area codes are entered from the Phone Number screen (***fig a.***).

(***fig b.***)

Use the ◀ key to enter the area code and prefix field (***fig b.***). The Prefix defaults to "1" for normal 11-digit dialing. Where necessary, you can change the prefix to any number. To choose 8, 9, or 10-digit dialing, when no prefix is needed, press **SPACE BAR** while in the prefix field. Then type the required number of digits in the area code field followed by the phone number. Press the **ENTER** key to continue with the entry as described in the "Resident Information" section.

*To erase **"Resident"** information, press the **ERASE** key. Press the **HELP** key for assistance.*

***IMPORTANT NOTE:** While in the help screens, programming will be disabled.*
*To continue programming, press the **EXIT** button to exit the help screens first.*

UTILITY CODES

A 4-digit Utility Code (numeric characters only) may be assigned to "Utility Companies" such as delivery, telephone, construction companies, water, power, etc. These utilities can use their individual code to access the premises within the time zone that you program. Each system, no matter what the memory capacity, is equipped with 60 available Utility Codes and time zones.

STEP* 1** In the Program Selection Screen (fig a.***), Press the **U** key. The screen will display (***fig b.***):

(***fig a.***)

***STEP* 2** You now have two options:

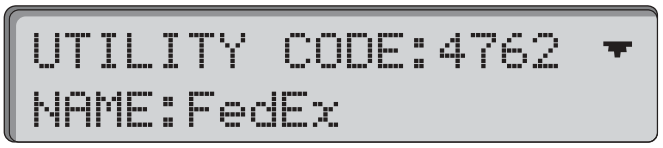
(***fig b.***)

To program a new Utility Code, press the **N** key and type in a 4 digit code. If the code entered is used, type in another.

OR

Use the ↑ ↓ keys to view or edit existing Codes. The last screen will display memory spaces available. Select a code that you wish to edit.

STEP* 3** Press the ▼ key or the **ENTER** key to enter code. Type the name of the utility in the screen that follows and press the ▼ key or **ENTER** (fig c.***).



(example - ***fig c.***)

STEP* 4** Enter the desired time zone in the screen that follows (fig d.***)
Use the ◄ ▲ ► ▼ keys to move the cursor. To view the previous screen, use the ▲ key. Press the **ENTER** key to complete your transaction.

(example - ***fig d.***)

For "User Mode" operation, Refer to the "Resident Use" Section.

*To erase **"Utility"** information, press the **ERASE** key. Press the **HELP** key for assistance.*

***IMPORTANT NOTE:** While in the help screens, programming will be disabled.*
*To continue programming, press the **EXIT** button to exit the help screens first.*

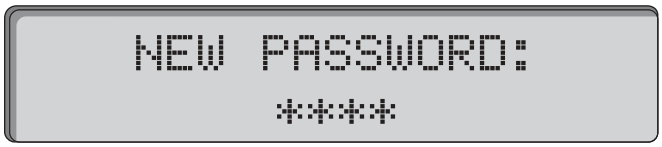
PASSWORD

The factory present password is 7777. We suggest that you customize it.

In the Program Selection Screen (***fig a.***), Press the **P** key.

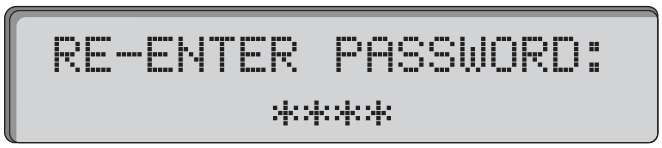
(***fig a.***)

To customize a password, type in a four character password (it may be alphanumeric characters). Press the **ENTER** key to enter the new password. It will be displayed by asterisk (*) for security (***fig b.***) (To leave the password unchanged, press the **EXIT** key.)



(***fig b.***)

A confirmation screen will appear (***fig c.***). Type in the same password and press the **ENTER** key. If you enter a different password, the password will not be confirmed and you will have to repeat the transaction.



(***fig c.***)

Always remember your password! This password is required to enter the Program Mode. If you lose your password, you will need to contact the manufacturer to reissue a new password.

Pressing the **HELP** *button will provide users with a help message.*

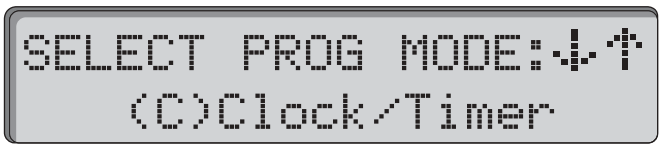
IMPORTANT NOTE: *While in the help screens, programming will be disabled.*

To continue programming, press the **EXIT** *button to exit the help screens first.*

CLOCK/TIMER

The Clock/Timer allows you to set the date and time, and to program gates and doors to be opened or closed whenever specified. This clock is equipped with 100 year calender, auto leap year compensation and daylight savings.

In the Program Selection Screen (***fig a.***), Press the **C** key.



(***fig a.***)

Use the ↑ ↓ keys to scroll between the three different menu choices (***fig b.***). Select the number of your choice or press the **ENTER** key while on the selection of your choice.

CAUTION: *Make sure to set the Date and Time before programming the clock timers for the door and gate.*

(***fig b.***)

1. DATE AND TIME

Use the **1** key to set the Date and time, use the ◄ ▲ ▼ ► keys to move the cursor. Press the **ENTER** key to enter your input.(***fig c.***)

(***fig c.***)

Use the ↑ ↓ keys to select the current day of the week. Press the **ENTER** key to enter your input. (***fig d.***)

(***fig d.***)

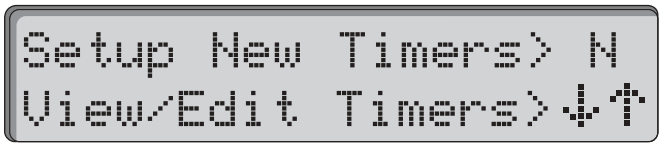
Select daylight savings by pressing **Y** for yes or **N** for no. The **ENTER** key will complete the date and time entry. (***fig e.***)

(***fig e.***)

CLOCK/TIMER CONTINUED

2./ 3. DOOR AND GATE TIMERS

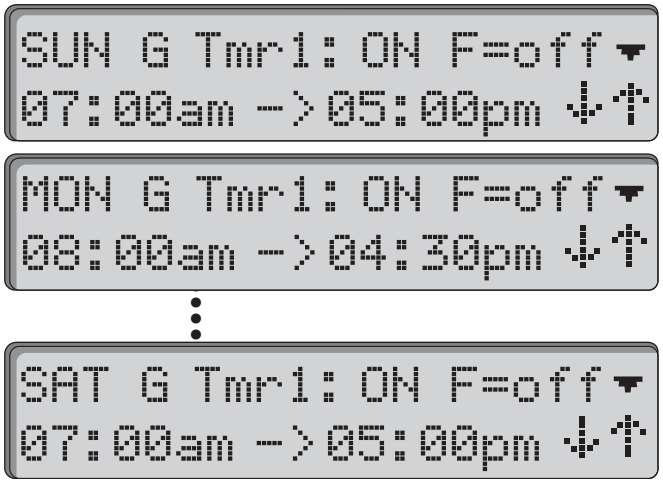
Press **2** to program *Gate* Timers Menu. Press **3** to program the *Door* Timers Menu.



See next page for instructions

USE ARROWS TO VIEW / PROGRAM INDIVIDUAL TIME ZONES

Use ↑ ↓ to view and program timer(s) for Sunday through Saturday. Move the cursor to time and type in the setting. Two timers can be set for each day of the week following the procedure below. (***fig a.***)



(***fig a.***)

Program timers 1 and 2 for any day of the week (***fig b.*** & ***c.***)

Press **N** to turn timer 1 ***ON*** or press **F** to turn timer 1 ***OFF***. Press the **ENTER** key. Type the desired timer 1 setting. For **am** type **A** For **pm** type **P** Press **ENTER** to program the timer 2.

(***fig b.***)

(***fig c.***)

To program the second timer, repeat the above procedure. Press the ENTER key when complete.

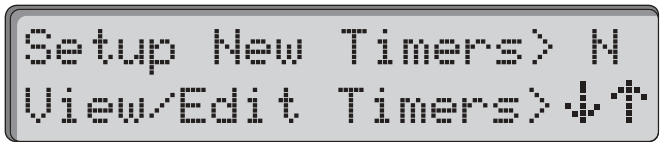
*To exit **"Timers"** screen, press the **EXIT** key. Press the **HELP** key for assistance.*

***IMPORTANT NOTE:** While in the help screens, programming will be disabled. To continue programming, press the **EXIT** button to exit the help screens first.*

CLOCK/TIMER CONTINUED

2./ 3. DOOR AND GATE TIMERS, continued'

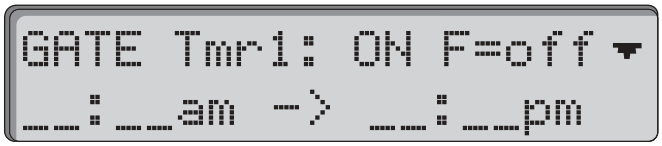
Press **2** to program *Gate* Timer Menu Press **3** to program the *Door* Timers Menu



PRESS N TO PROGRAM SETS OF TIME ZONES

See previous page for instructions

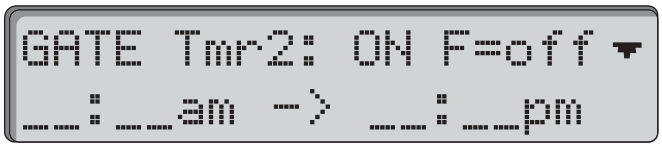
Program timers 1 and 2 for any day of the week (***fig d.***)



(***fig d.***)

Press **N** to turn timer 1 ON or press **F** to turn timer 1 OFF. Press the **ENTER** key. Type the desired timer 1 setting. For **am** type **A**,For **pm** type **P** . Press **ENTER** to program the timer 2.

To program the second timer, repeat the above procedure. Press the ENTER key when complete.



Timer 1 & 2 settings can be copied to any day(s) of the week. Select the day(s) of the week to be copied. Press **Y** to select day or press **N** to not select day of week. Press **ENTER** when complete. (***fig e.***)

(***fig e.***)

*To exit **"Timers"** screen, press the **EXIT** key. Press the **HELP** key for assistance.*

***IMPORTANT NOTE:** While in the help screens, programming will be disabled.*

*To continue programming, press the **EXIT** button to exit the help screens first.*

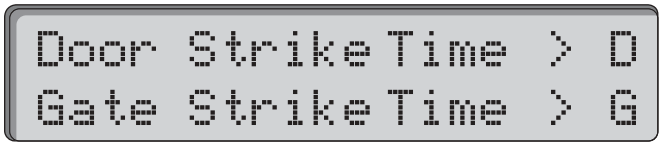
STRIKE TIME

Strike Time sets the amount of time your gate or door relay will be held open.

In the Program Selection Screen (***fig a.***), Press the **S** key.

(***fig a.***)

The strike time can be set for both gates and doors (***fig b.***)

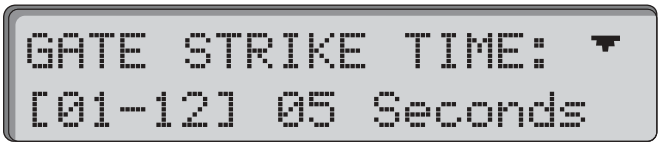


(***fig b.***)

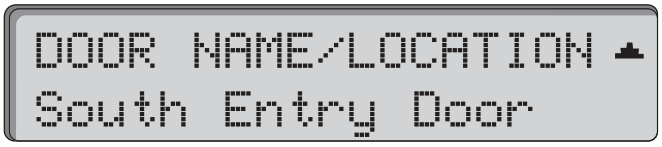
Press the **D** key to set the *Door Strike Time*. Type in a time from 1 to 99 seconds (***fig c.***). Press the **ENTER** key to enter your selection.

(***fig c.***)

Press the **G** key to set the *Gate Strike Time*. Type in a time from 1 to 12 seconds (***fig d.***). Press the **ENTER** key to enter your selection.



(***fig d.***)



(***fig e.***)

(***fig f.***)

For either the Gate or Door Strike TIme, you may now type in a name and location (up to 13 characters) to which you want the programmed strike time applied. (***fig e.***) and (***fig f.***) Press the **ENTER** key to complete the transaction.

TALK TIME

You can set the amount of time to talk on the Entry Phone at 20, 40, or 80 seconds.

(***fig g.***)

(***fig h.***)

In the Program Selection Screen (***fig g.***), Press the **T** key. Choose the desired Talk Time, press **A** for 20 seconds, **B** for 40 seconds, or **C** for 80 seconds (***fig h.***). Press the **ENTER** key to confirm your entry.

GREETING

Use the Greeting Screen to customize the Welcome message.

In the Program Selection Screen (***fig a.***), Press the **G** key.

(***fig a.***)

Type the name of the facility and press the **ENTER** key to complete your entry. The system will automatically center your entry on the Welcome screen.(***fig b.***)

(***fig b.***)

VOLUME ADJUST

Use the Volume Screen to adjust both call and unit message volume levels.

In the Program Selection Screen (***fig c.***), Press the **V** key.

(***fig c.***)

Use the ↑ ↓ keys to adjust the volume to the desired level (***fig d.***). Press the **ENTER** key to complete the entry.

Volume at unit speaker for visitor/tenant communication.

(***fig d.***)

Use the ↑ ↓ keys to adjust the volume to the desired level (***fig e.***). Press the **ENTER** key to complete the entry.

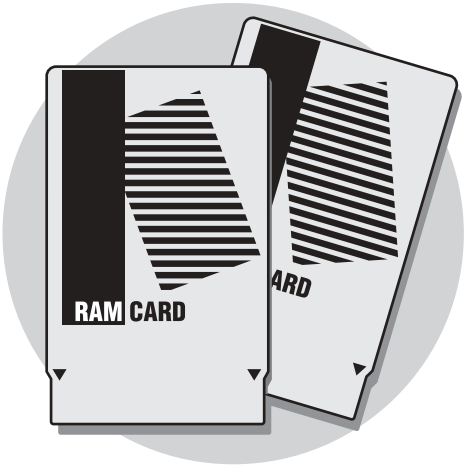
Unit messages. Ex: access granted, invalid entry, etc.

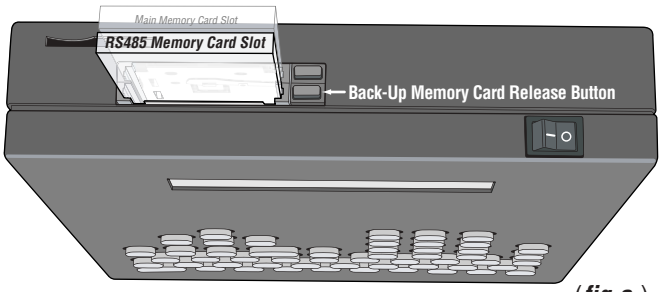
(***fig e.***)

*Pressing the **HELP** button will provide users with a help message.*

***IMPORTANT NOTE:** While in the help screens, programming will be disabled.*
*To continue programming, press the **EXIT** button to exit the help screens first.*

BACK-UP MEMORY





(***fig a.***)

NOTE: You must have an extra memory card (sold separately) installed in the RS 485 Slot (***fig a.***) of the Processor in order to perform the backup process.

In the Program Selection Screen (***fig b.***), Press the **B** key.

Insert additional memory card in the Backup Slot.

NOTE: *Back-up Memory card must be the same size or greater than the Main Memory card being backed up.*

The screens will display when the cards were last updated. (***fig c.***) and (***fig d.***) Use the ↑ ↓ keys to scroll through the information.

Press the **ENTER** key to Backup. Press the **EXIT** key to exit the backup process (***fig e.***).

(***fig b.***)

(***fig c.***)

(***fig d.***)

(***fig e.***)

Pressing the **HELP** *button will provide users with a help message.*

IMPORTANT NOTE: *While in the help screens, programming will be disabled.*

To continue programming, press the **EXIT** *button to exit the help screens first.*

ERROR MESSAGES

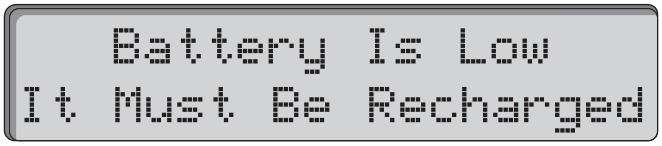
OUT OF RANGE CODES: If the processor detects one or more 3-digit codes present on the memory card inserted that cannot be accessed, an error message is displayed. (***fig a.***) Codes that cannot be accessed by the limitation of the system being used cannot be edited.

(***fig a.***)

LOW BATTERY If the battery backup is reaching it's minimal charge level, a battery icon with a ***"B"*** next to it will display in the top right corner of the display. (***fig b.***) An alert beep will accompany this icon. The batteries must be charged to continue. ***

(***fig b.***)

If the battery backup level reaches it's minimal charge, an error message will display (***fig c.***) and the system will become non-functional until the battery backup is charged by using the plug in transformer. ***



(***fig c.***)

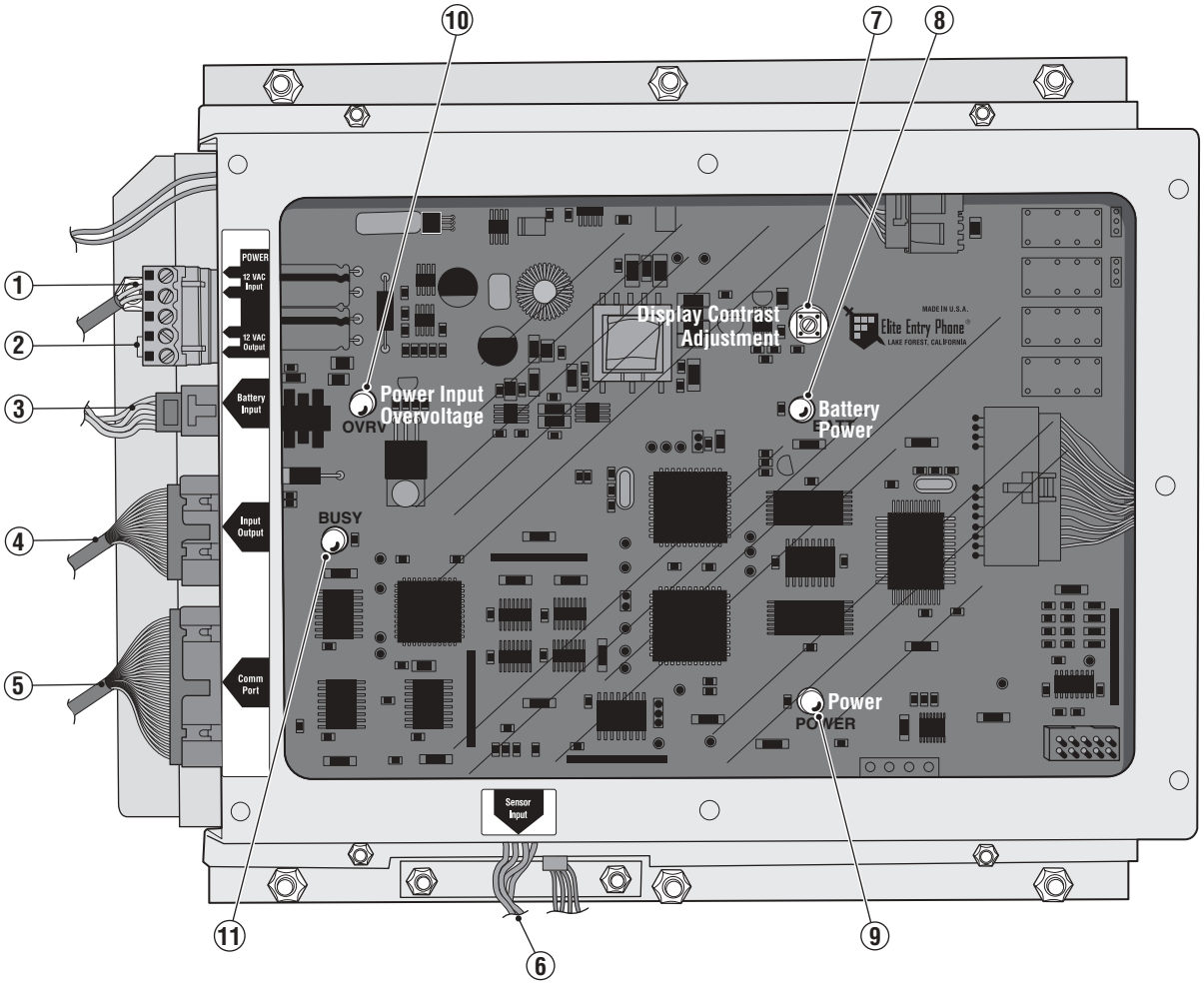
LOW BATTERY ICONS: If a battery icon appears in the top right corner of the display and the letter next to it is an ***"M"*** or a ***"C"***, as shown in (***fig d.***) and (***fig e.***), contact Manufacturer for instructions.

(***fig d.***)

(***fig e.***)

IMPORTANT NOTE:** In order to charge the battery in the Dial Code System, the processor ***MUST be plugged in to the transformer and the processor ***MUST BE ON***. If the power is off on the processor, the battery will not be charging.

DISPLAY CONTROLLER BOARD

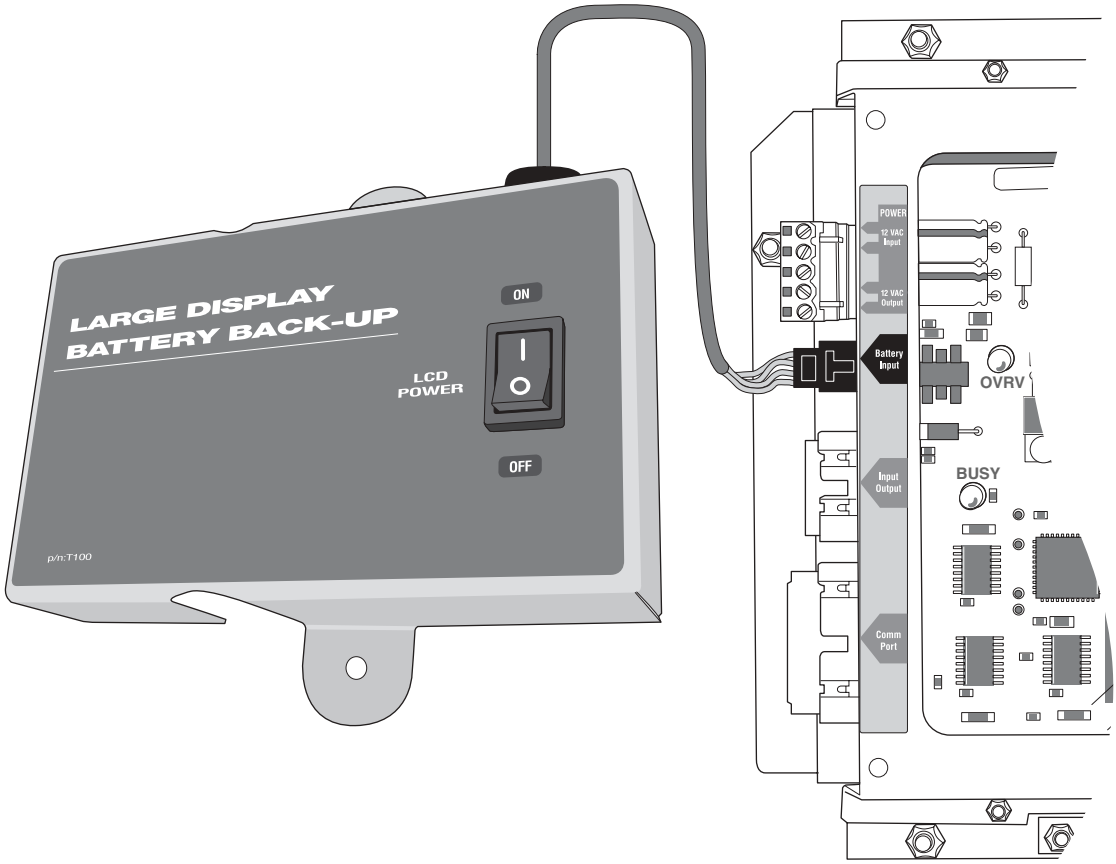


1. **12 Vac Input**
2. **12 Vac Output - (**Not used)
3. **Battery - (**On/Off switch input)
4. **Input/Output**
5. **Comm Port -** (Connected to processors parallel port)
6. **Sensor Input**
7. **Large Display Contrast Adjustment -**
   (Clockwise-Lighter Contrast, Counterclockwise-Darker Contrast)

LED Indicators

8	**Batt**	**ON:** System is working using battery power. **OFF:** System is working using transformer power.
9	**Power**	**ON:** System has power (Transformer, Battery). **OFF:** System has no power (Transformer, Battery).
10	**OVRV**	**ON:** Incorrect transformer voltage (Overvoltage). **OFF:** Proper transformer voltage (Transformer plugged in).
11	**Busy**	**ON:** LED flashes when receiving data from processor. **OFF:** No data being received from processor.

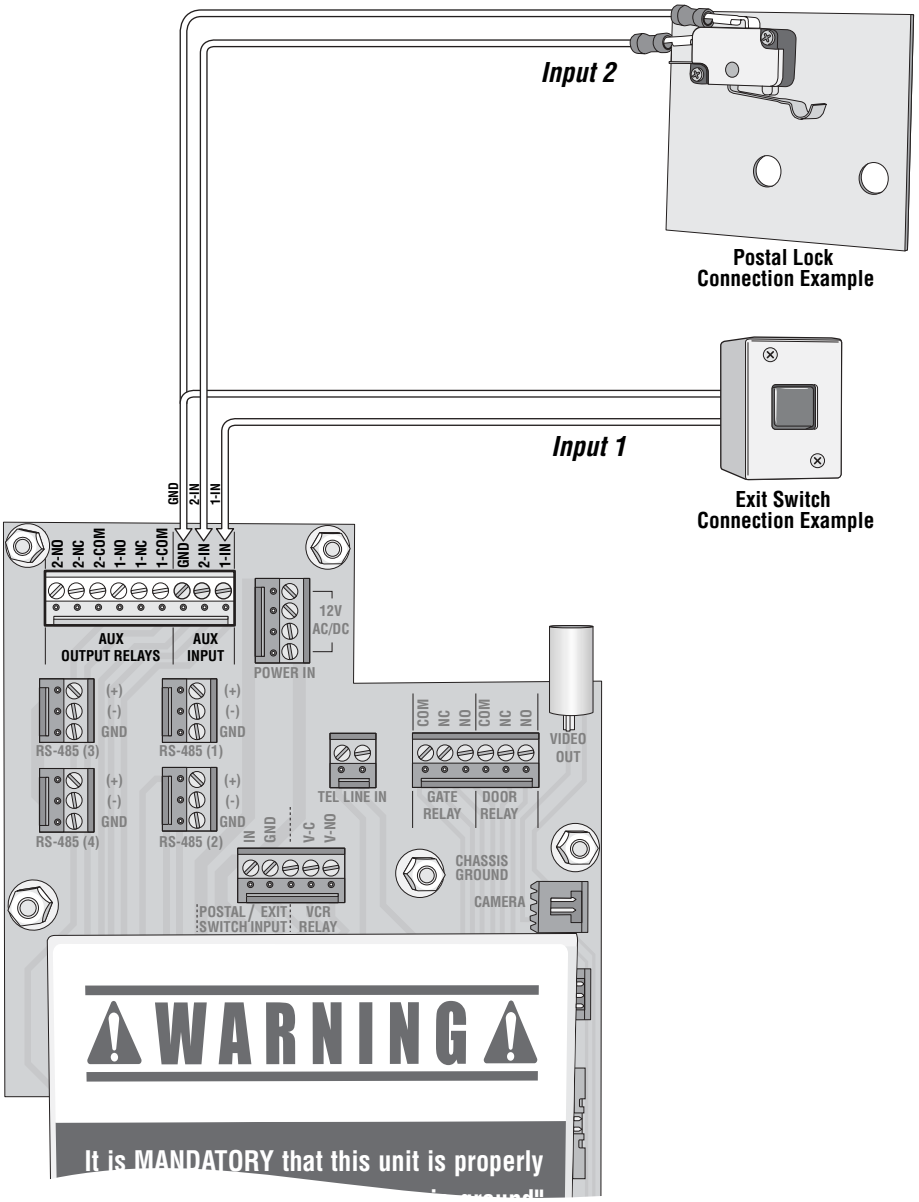
LARGE DISPLAY BATTERY BACK-UP



T-100 is a built-in battery back-up module for the Large Display Controller Board. It provides the system with 3 to 5 hours of battery operation.

NOTE: *"LCD Power" switch must always be turned* ***ON*** *for large display to operate.*

AUXILIARY INPUT/OUTPUT CONNECTIONS



Auxiliary inputs can be used for Postal Lock and/or Exit switch operations.

Wiring Instructions:

① Connect one terminal of a switch to Auxiliary Input (1-IN, or 2-IN)

② Connect the other terminal to Ground (GND).

Note:

Auxiliary Input 1-IN activates auxiliary Relay 1
Auxiliary Input 2-IN activates auxiliary Relay 2

Strike Time of Relay 1 is equal to the programmable ***"Gate Strike Time"*** of processor
Strike Time of Relay 2 are equal to the programmable ***"Door Strike Time"*** of processor

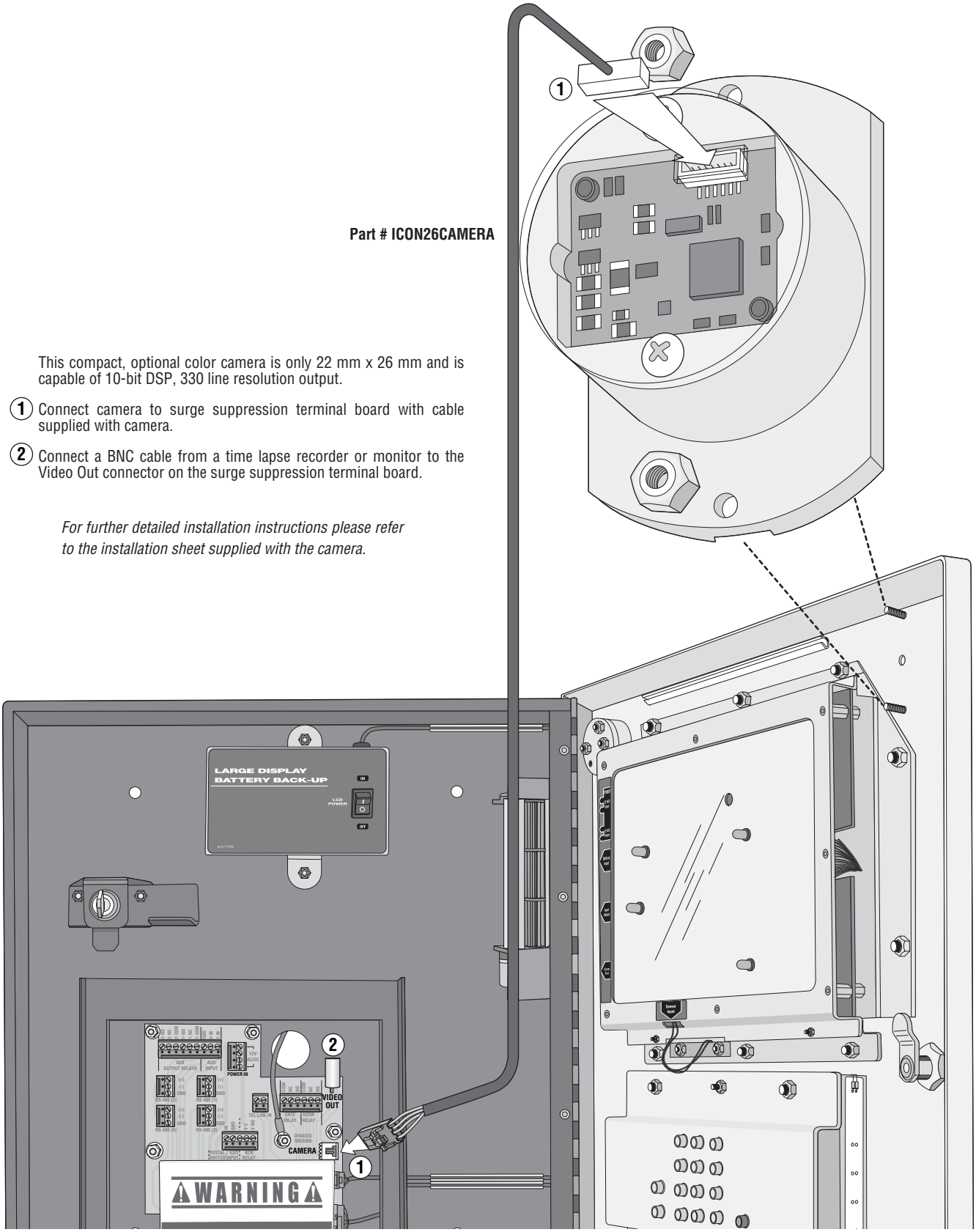
OPTIONAL CAMERA

Part # ICON26CAMERA

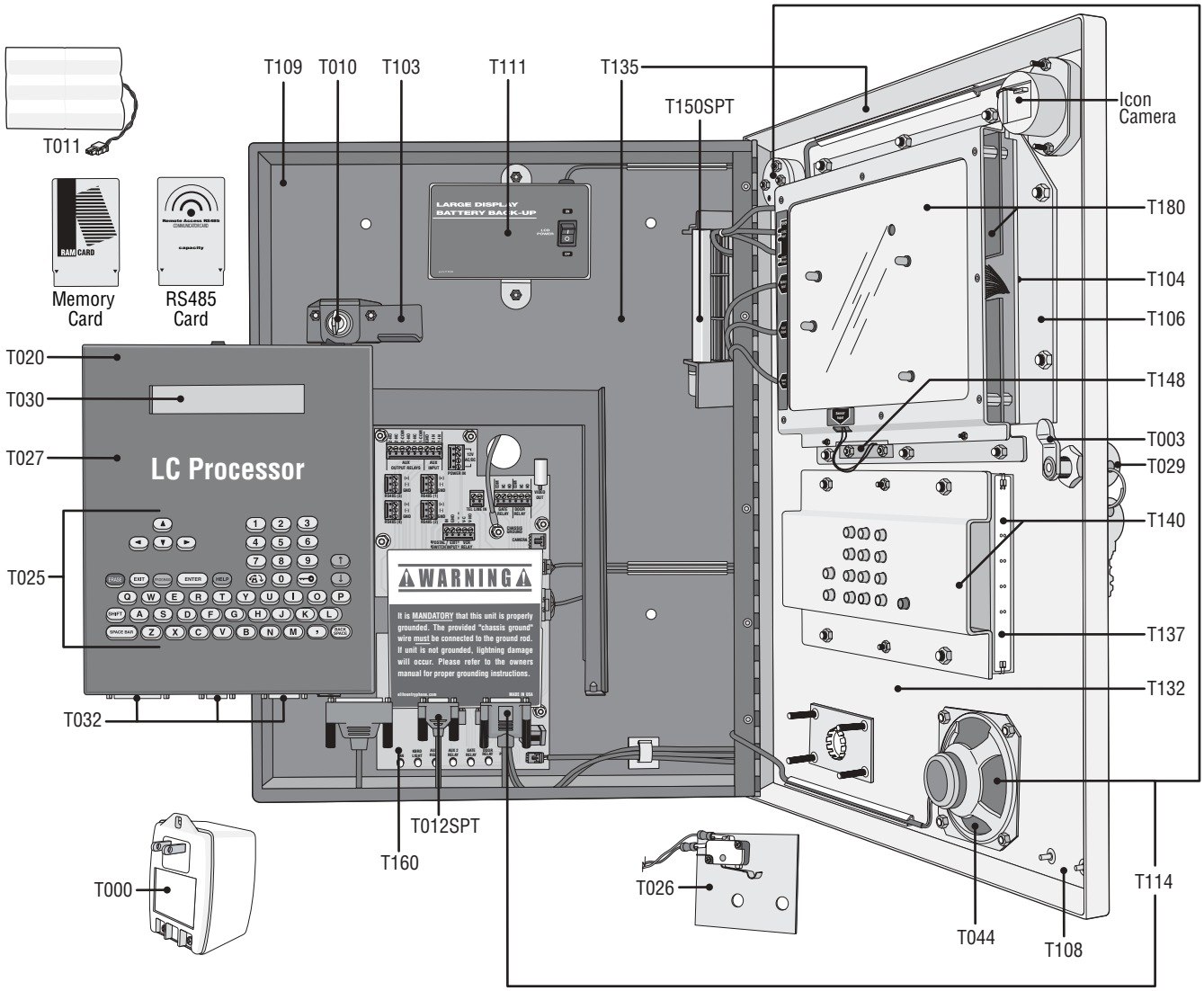
This compact, optional color camera is only 22 mm x 26 mm and is capable of 10-bit DSP, 330 line resolution output.

1. Connect camera to surge suppression terminal board with cable supplied with camera.
2. Connect a BNC cable from a time lapse recorder or monitor to the Video Out connector on the surge suppression terminal board.

For further detailed installation instructions please refer to the installation sheet supplied with the camera.



PARTS LIST AND ILLUSTRATIONS



Icon26 Part #	Icon26 Description
ICON26CAMERA	Camera
RFCARD4K	RS485 Communicator Card 4000
RFCARD8K	RS485 Communicator Card 8000
RFCARD16K	RS485 Communicator Card 16000
T000	Transformer 12 Vac 50 VA (Provided)
T003	Keylock
T010	Processor Key Release / Lock
T011	Battery Back-Up
T012SPT	9-Pin Comm Port Connector (Surge Protection Terminal)
T020	LC Complete Internal Metal Box (Processor Box)
T025	Programming Keys
T026	Postal Lock Assembly
T027	LCD Processor - No Memory Card
T029	Key for Internal / External Lock
T030	LCD Display
T036	Heater Pad Option (Pre-Installed in Processor)
T044	Speaker 4 OHM
T103	Icon Keylock Bracket
T104	Icon Display Window Glass

Icon26 Part #	Icon26 Description
T106	Icon Display Window Assembly
T108	Icon Stainless Steel Door
T109	Icon Processor Containment Box
T111	Icon Battery Back-Up
T114	Icon External Box Connection Kit (Surge Protection Terminal)
T132	Icon External Front Door, W/O Display
T135	Icon LC External Box Assembly
T137	Icon Keypad Light
T140	GLCD Metal Keypad Complete W/ Lighting
T148	Temp / Light Sensor Cable (GLCD)
T150SPT	Icon Fan (Surge Protection Terminal)
T160	Icon Surge Protection Board
T180	Icon Display HT W/ Control Board
T25MEM	25 Name Memory Card
T50MEM	50 Name Memory Card
T150MEM	150 Name Memory Card
T250MEM	250 Name Memory Card
T500MEM	500 Name Memory Card
T1000MEM	1000 Name Memory Card

All components and specifications are subject to change without notice.

APPROVALS

The Chamberlain Group, Inc.
Complies with Part 68, FCC Rules

FCC Part 15 - Tested to comply with
FCC standards for home or office use

This Class B digital apparatus meets all requirements of
CANADIAN Interference Causing Equipment Regulations.

UL STD 294, 5th Ed.
UL STD 1950, 3rd Ed.

Instruction to the User:
This equipment has been tested and found to comply with the limits for a class 13 digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
* Reorient or relocate the receiving antenna.
* Increase the separation between the equipment and receiver.
* Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
* Consult the dealer or an experienced radio/TV technician for help.

In order to maintain compliance with FCC regulations, shielded cables must be used with this equipment. Operation with non-approved equipment or unshielded cables is likely to result in interference to radio and TV reception. The user is cautioned that changes and modifications made to the equipment without the approval of manufacturer could void the users authority to operate this equipment.

"Notice: The Industry Canada (IC) label identifies certified equipment. This certification means that the equipment meets telecommunications network protective, operational and safety requirements as prescribed in the appropriate Terminal Equipment Technical Requirements document(s). The department does not guarantee the equipment will operate to the users satisfaction.

Before installing this equipment, users should ensure that it is permissible to be connected to the facilities of the local telecommunications company. The equipment must also be installed using a acceptable method of connection. The customer should be aware that compliance with the above conditions may not prevent degradation of service in some situations.

Repairs to certified equipment should be coordinated by a representative designated by the supplier. Any repairs or alterations made by a user to this equipment, or equipment malfunctions, may give the telephone communications company cause to request the user to disconnect the equipment.

User should ensure for their own protection, that the electrical ground connections of the power utility, telephone lines and internal metallic water pipe system, if present, are connected together. This precaution may be particularly important in rural areas."

Caution: Users should not attempt to make such connection themselves, but should contact the appropriate electric inspection authority, or an electrician, as appropriate."

"Notice: The Ringer Equivalent Number (REN) assigned to each terminal device provides an indication of the maximum number of terminals allowed to be connected to the telephone interface. The termination on a interface may consist of any combination of devices subject only to the requirement that the sum of the Ringer Equivalent Numbers of all the devices does not exceed 5."

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