



# INTRODUCTION

Carefree Security self contained keypads are fully sealed and are ideal for adverse environment conditions due to the electronics being potted in an epoxy, making the keypad impervious to water and moisture.

Carefree Security keypads is a digital keyless entry system designed for access control applications. The keypad is housed in a metal enclosure that can be mounted to a pedestal or bolted directly to a wall. The keypad is available in two versions with a bright chrome metal die cast keyboard or with a heavy duty plastic keyboard. The keyboards have a bright, easy to read graphics. Single or up to 1000 entry codes (PIN) from 2 to 6 digits in length, can be programmed.

Two LED indicators show the status of the keypad system. The red LED indicates power on, green LED indicates access is granted. The yellow program LED light indicates that the keypad is in program mode or in a "lockout" condition. The keypad night light illuminates the keys to a brighter state for the duration of entering your code number, an internal sounder beeps when each key is pressed.

## IMPORTANT - PLEASE NOTE

Please read carefully all instructions before installing or Programming this keypad. It is very important to apply and follow the procedures described herein. Your keypad represents a new generation of keypad technology that is simple to use and operate.

## TECHNICAL NOTES:

- The user of the keypad has up to 30 seconds to key in their entry code.
- All digits of the personal code number must be entered.
- If a wrong number is entered during programming, pressing the key will end programming.
- To avoid ESD (electrostatic discharge) interfering with the operation of the keypad, ground the housing.
- Lightning and Surge Protection is built into the keypad. However, if you install a keypad in an area where lightning can damage the keypad, make sure to install a Model 306, Lightning & Surge Protector for extra protection. There is no warranty if the keypad is damaged by lightning, static electricity or high voltage surges.
- These keypads have dual voltage operation from 10 to 24 volts AC or DC. Current 10 mA typical, 150 mA maximum.
- Output Relay #1, Form C, 5 Amp 250 VAC or 30 VDC.
- The keypad has a built in timer for remote exit, a door exit switch can be wired from the keypad to a N.O. push button exit switch or to a fire access key switch to provide "codeless" entry for authorized personnel.
- When pressing any number on the keypad it will activate the Night Light to a brighter state for the duration of entering your code numbers.
- Latching relay code (toggle mode) to hold gates or doors open.
- Too many incorrect code number entries, will cause a lockout condition and the yellow LED will blink.
- Automatic voltage sensor - min. 9 volts, max. 30 volts AC or DC.

## FEATURES:

- Programmable Keypad
- Up to 1000 Personal Code Numbers
- 2 to 6 digits entry code length
- Microprocessor based memory
- Lightning and Surge protection built in
- 2 LED status indicators
- Audio tone buzzer
- Easy to program
- Built in timer for remote exit door switch or fire access key switch
- Latching Relay to hold gates or doors open
- Metal Housing
- Powered from a 10 Volt or 24 Volt AC or DC source
- Highly vandal resistant
- Compact and easy to install
- Fully sealed metal push button or plastic keyboard
- No code number loss with power failure (EEPROM MEMORY)
- Night light illuminates keys whenever keypad is used
- Timed anti-passback; and keypad lockout

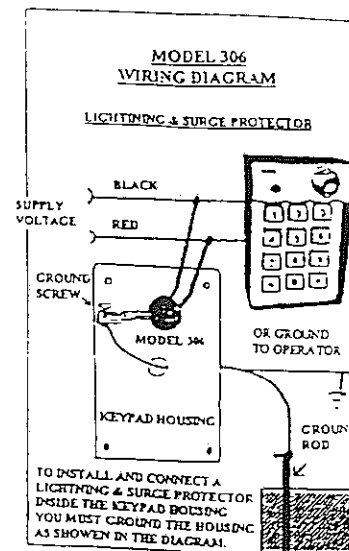
## PROTECT THE KEYPAD FROM LIGHTNING & POWER SURGES

If you install a keypad that is in a area were lightning can damage the keypad:

1. Make sure the keypad metal housing is grounded.
2. Install a Model 306 Lightning & Surge Protector.

There is no warranty if the keypad is damaged due to lightning, static electricity or high voltage power surges. The Model 306 will help to protect the electronics in the keypad and is very easy to install.

Do not ground the housing to the fence, fence post or pedestal. Ground the keypad metal housing to a electrical ground (operator) or install a ground rod.



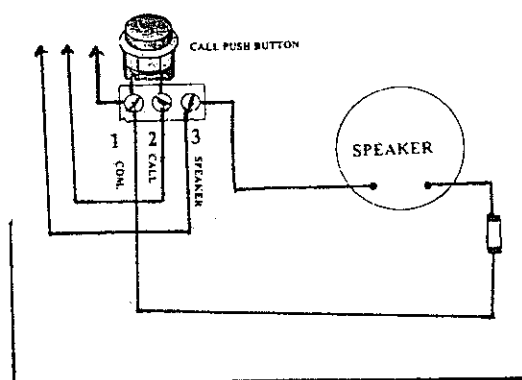
**TROUBLE SHOOTING:** If Lightning or High Voltage Surge strikes the keypad the micro processor may go into a self protection mode causing one or more of the following conditions:

- The buzzer will not turn off or on.
- Some of the push buttons on the keypad will work and others may not or
- The keypad will not work at all.

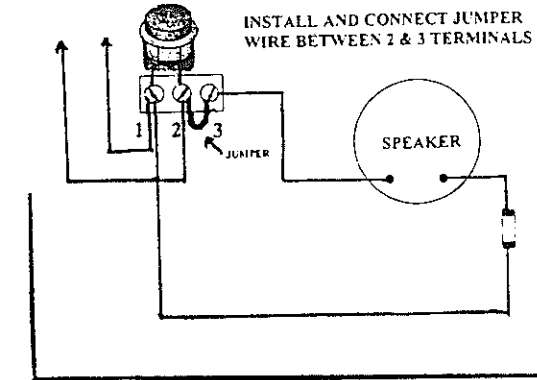
To reset the keypad, disconnect the power to the keypad and wait at least two (2) minutes, then re-connect the power to the keypad and enter your code number. If the keypad still does not work, then a high voltage surge has damaged the micro processor. Return the keypad back to the manufacturer for evaluation.

## WIRING SPEAKER STATION TO INTERCOM MASTER STATION

TO INTERCOM MASTER STATION Basic wiring diagram for three (3) wire system



TO INTERCOM MASTER STATION Basic wiring diagram for two (2) wire system



### Wiring:

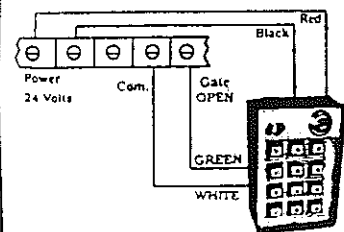
Run 2 or 3 conductor twisted shielded cable from the outside speaker station to the master station. Run the wire in it's own conduit at least 8 inches away from high voltage. You may run the operator control wires in the same conduit as the communication wires, but do not run them in the same cable. Do not route or place communication wires next to transformers, fluorescent lights, or any device that produces high voltage flux. See the chart below for proper gauge of wire. After you have made all your connections, ground the cable shielding to earth ground at one end of the cable only.

### Wiring:

From inside intercom station to outside speaker station.  
Up to 650 feet use 20 gauge wire  
650 feet to 1600 feet use 18 gauge wire

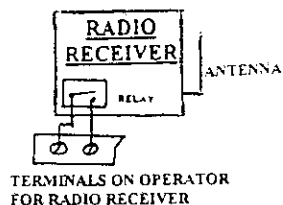
# BASIC WIRING DIAGRAMS

## WIRE TO A GATE OPERATOR OR OVERHEAD DOOR

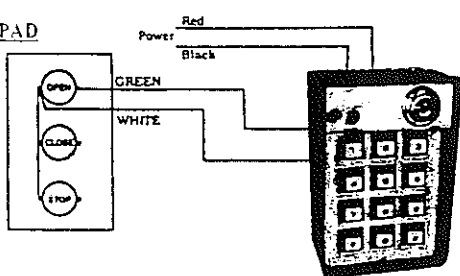


## TO OPEN OR CLOSE THE GATE OR OVERHEAD DOOR FROM THE KEYPAD

CONNECT THE GREEN AND THE WHITE WIRE FROM THE KEYPAD TO THE TERMINALS WHERE THE RADIO RECEIVER N.O. RELAY CONTACTS ARE CONNECTED.



## WIRE TO A 3 BUTTON STATION



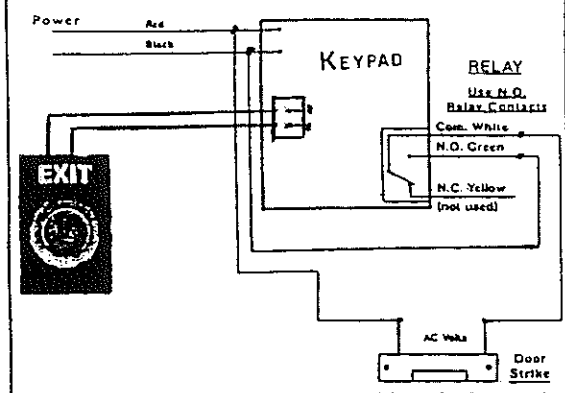
SPECIAL DESIGNED FOR GATE OPERATORS AND OVERHEAD DOORS

Check your terminal numbers on your operator for correct location of wires.

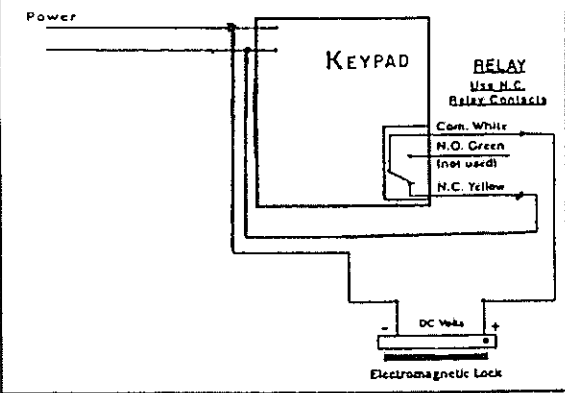
TERMINALS ON OPERATOR FOR RADIO RECEIVER

## use for Electric Door Locking Devices

### Electric Door Strike - AC Power:



### Electromagnetic Lock - DC Power:



## TWO (2) YEAR LIMITED WARRANTY

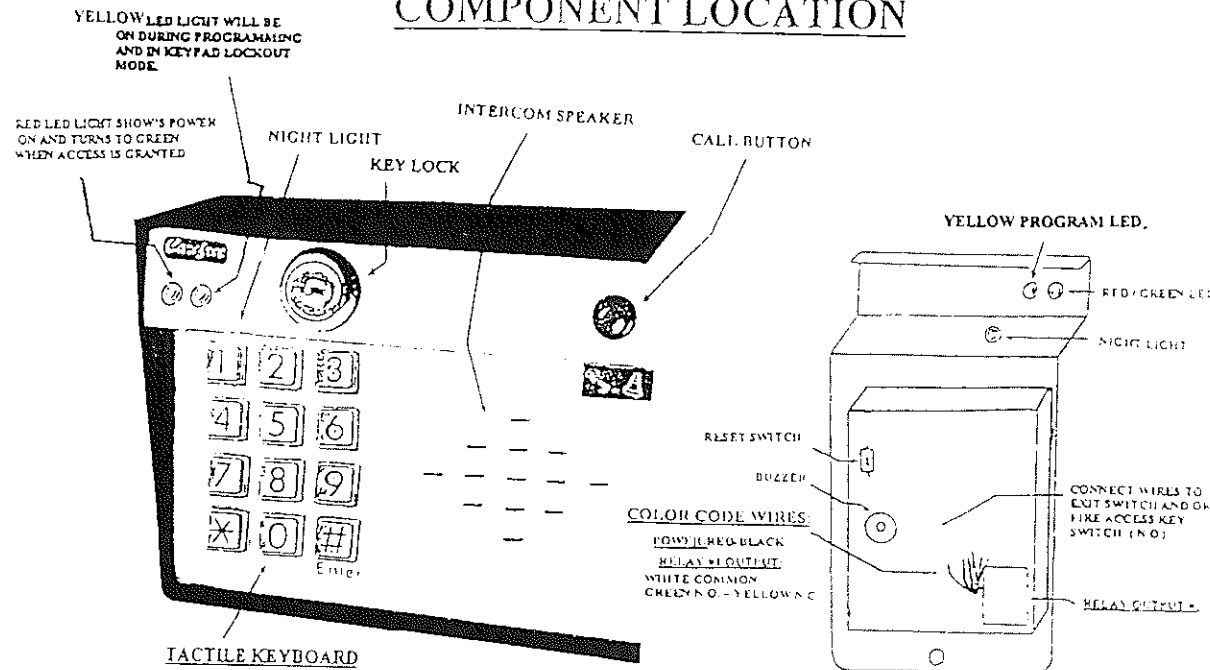
This Carefree product is warranted against defects in materials and workmanship for two (2) years from the date of shipment. Warranty expiration date is labeled on the product removal of this label will void the warranty. Carefree Security Inc., shall at its option either repair or replace defective products that have been returned to Carefree Security Inc., with freight prepaid and within the warranty period.

The foregoing warranty shall not apply to defects resulting from abuse, misuse, accident, alteration, neglect, normal wear and tear, lightning and high voltage surges and act of God or unauthorized repair or installation. Carefree Security Inc., shall have the right of final determination as to the existence and cause of the defect.

THE WARRANTY SET FORTH ABOVE IS EXCLUSIVE AND NO OTHER WARRANTY, WHETHER WRITTEN, ORAL OR EXPRESSED WILL BE VALID.

CAREFREE SECURITY INC., SPECIFICALLY DISCLAIMS THE IMPLIED WARRANTIES OR MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. The remedies provided herein are Buyer's sole and exclusive remedies. In no event shall Carefree Security, Inc., be liable for direct, indirect, special, incidental or consequential damages, (including loss of property, revenue, profit, cost of removal, installation or reinstallation) whether based on contract, tort or any other legal theory.

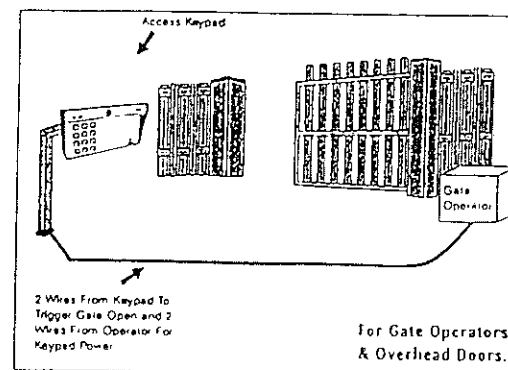
# COMPONENT LOCATION



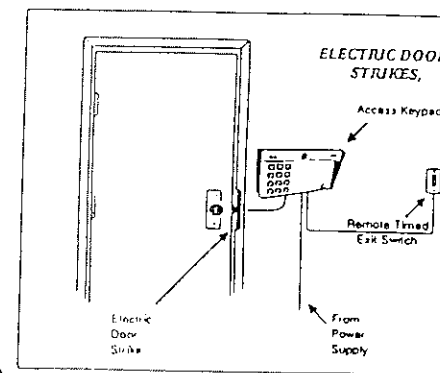
## WARNING

All installations and operating instructions should be read before the unit is connected to power and operated. The installation and operating instructions should be retained for future reference. All operating and user instructions should be followed. The housing should be mounted to a wall or pedestal or as recommended by the manufacturer. The unit should be connected to a power supply only of the type described in the operating instructions or as marked on the unit. Regular testing by entering any valid Personal Code Numbers, must be done to ensure proper operation. Make sure that all necessary requirements, such as the proper placing of operating, warning and safety signs are followed in accordance with all Local, State and Federal regulations to ensure the safety and well being of all those within the area of operation of this unit. Install this unit only on a gate or door operator with an automatic force reverse action.

## TYPICAL INSTALLATION

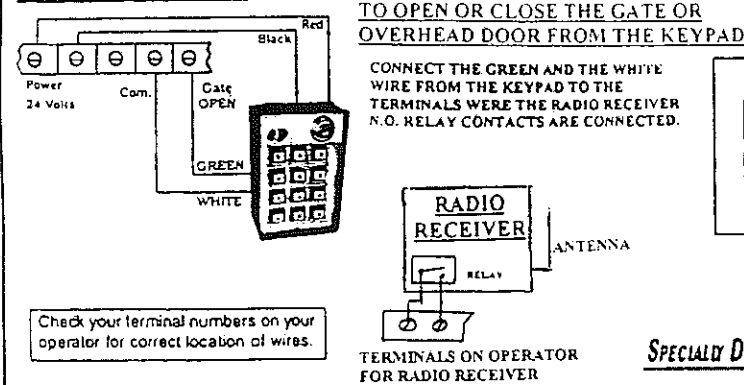


For Gate Operators & Overhead Doors.

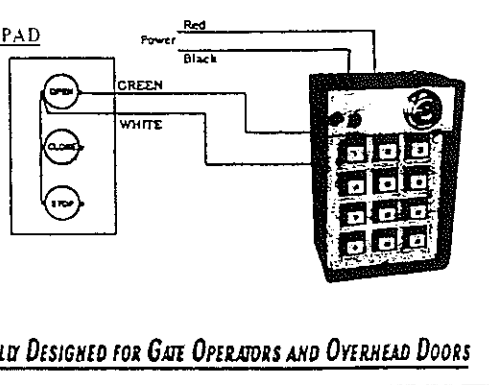


# BASIC WIRING DIAGRAMS

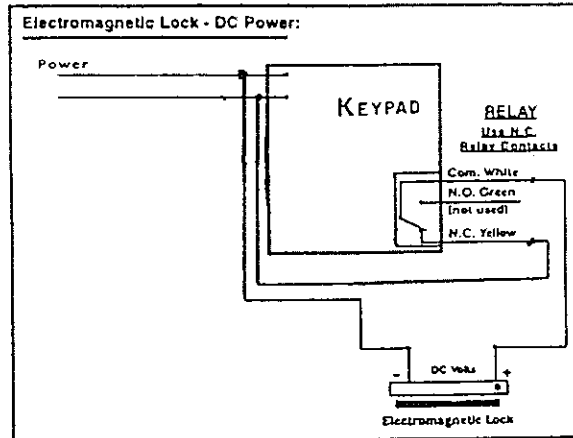
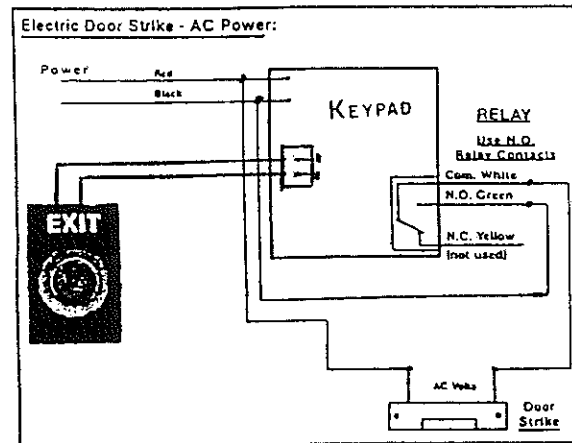
## WIRE TO A GATE OPERATOR OR OVERHEAD DOOR



## WIRE TO A 3 BUTTON STATION



## use for Electric Door Locking Devices



## TWO (2) YEAR LIMITED WARRANTY

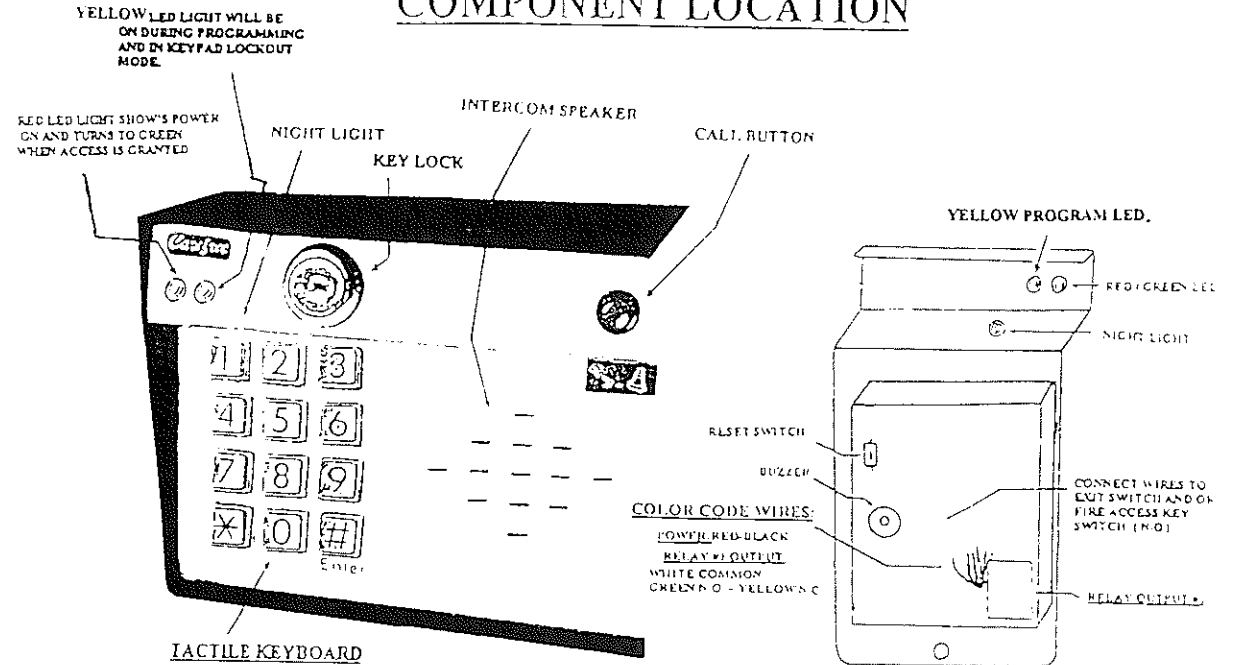
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# COMPONENT LOCATION



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## TYPICAL INSTALLATION

