

6000 Series Instruction Sheet

QUICK-START

A) Connect 12VDC to the Red (+) and Black (-) wires.

B) Touch * 382436 # You should hear three (3) beeps. (You are now in program mode) If you did not get 3 beeps, see below.

C) Touch * 11 11111 ## (3 beeps)

D) Touch * 11 22222 # 2 # (3 beeps)

E) Touch * 11 33333 # 3 # (3 beeps)

F) Touch * 99 # (3 beeps)

You have now exited the program mode.
Now we'll see if the unit works...

1) Touch # 11111 You should hear a key beep for each number (5 beeps total). After the 5th digit you should hear the Main Relay activate for 2 seconds.

2) Touch # 22222 You should hear the Auxiliary Relay activate for 2 seconds.

3) Touch # 33333 you should receive a voltage output on Output Line 3 for 2 seconds. This is on the orange wire on the 7 position wire harness.

If you noticed, each code was preceded by a # i.e. # 11111. Most times the # is unnecessary, but its usage will always "clear" any previous digits entered.

Finished? Touch * 382436 # you are now in program mode. Touch * 25 # to erase memory.

If the decoder did not work...

Place the small black jumper on the 2 pins marked J1. The pins are next to the 7 position wire harness.

Try the above sequence again.

STATIC PROTECTION

For keypads with metal plates the static grounding strap must be used. This strap consists of a ring terminal, disc capacitor, and black wire, and is included with all 6000 series keypads. Connect the wire end of the strap to the negative (-) power supply connection of the keypad (the black wire). Connect the ring terminal end of the strap under one of the plate screws between the plate and the wall.

WIRE CONNECTIONS

7 POSITION HARNESS:

Grey wire is an output for Door-Ajar, Forced Entry, and Time Cancel. Connect a magnetic contact which is closed when the door is closed to this wire, and connect the other wire to the negative supply voltage input.

Brown wire is the Request To Exit (RTE) input trigger. When this wire is momentarily connected to the common or negative supply voltage input, the outputs programmed to operate from RTE will activate.

Yellow wire is for Output Line 4 which is used as a voltage output line or printer data line. This voltage output line is capable of switching up to 50ma. The output will activate when an input condition programmed for Output Line 4 is activated.

Orange wire is for Output Line 3 which is used as a voltage output line. This voltage output line is capable of switching up to 50ma. The output will activate when an input condition programmed for Output Line 3 is activated.

White wire is the common, the **Green** wire is the normally open (N.O.) and the **Blue** wire is the normally closed (N.C.) contact of the Auxiliary Relay which is rated for 1 amp at 30 VDC.

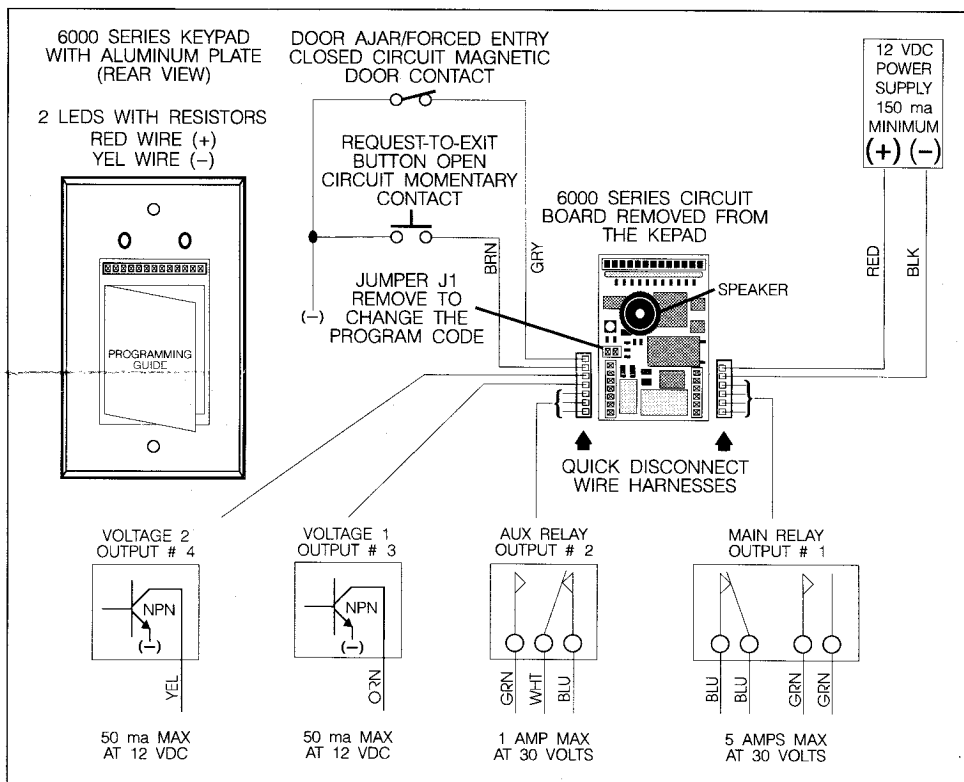
6 POSITION HARNESS:

Red (+) positive 12-14 VDC supply voltage input. This voltage should be uninterrupted and able to supply a minimum of 120ma for the keypad, and 20ma for each LED or nite-lite. **Black** (-) negative VDC supply voltage input.

Blue wires are normally closed (N.C.) and **Green** wires are the normally open (N.O.) set of Main Relay contacts. The Main Relay is rated for 5 amps at 30 VDC.

CAUTION !!!

If you use this product to operate a DC door strike, magnetic lock, relay, or any device that has a coil (inductive load) that is powered from a DC source; you **MUST** install a diode, in parallel, across the coil terminals. Use a 1N4001, 1N4002 or equivalent. Connect the stripe side of the diode to the coil terminal that becomes positive (+). Connect the other side to the other end of the coil. Proper installation of this diode will prevent the high voltage spike that occurs whenever a coil is de-energized. **If you do not use this diode, you will have erratic operation and will eventually damage the keypad and any other electronic device in the system.** Corby supplies the necessary diodes within the screw pack of this product, please use them.



PROGRAMMING

Touch * 382436 # to enter program mode.
Three (3) beeps indicate a valid program code was entered. Select the options to program from the following:

ASSIGN USER CODES * 11

The number of code digits entered depends on the code length selected in option # 19.

Program codes with these selectable outputs:

- | | |
|--------------|-----------------|
| 1 Main Relay | 3 Output Line 3 |
| 2 Aux Relay | 4 Output Line 4 |

EXAMPLES: Program a code of 54321 to activate the Main Relay, and trip Output Line 3 by touching * 11 54321 # 13 #
Program a code of 43682 to activate the Main Relay, Aux Relay, and Output Line 4 by touching * 11 43682 # 124 #

An output does not need to be assigned to activate the Main Relay ONLY.

EXAMPLE: To program a user code of 98765 to activate the Main Relay (ONLY) touch * 11 98765 # #

36 USER CODE SLOTS

User 1	54321	13
User 2	43682	124
.	.	.
.	.	.
.	.	.
User 36	98765	1

DELETE A CODE * 12

The code to be deleted must be entered twice. Any outputs assigned to this code do not need to be entered.

EXAMPLE: To delete the code 54321 touch * 12 54321 # 54321 #

CHANGE PROGRAM CODE * 13

Changes the program code of 382436.

Jumper J1 must be removed to perform this option. The new program code to be entered must be entered twice.

Sequence:

- A) Remove Jumper J1
- B) Touch * 382436 #
- C) Touch * 13 (new code) # (new code) #
- D) Finish programming the unit
- E) Exit program mode by touching * 99 #

EXAMPLE: To program a NEW program code of 123456 touch * 13 123456 # 123456 #

Blue or Black Jumper
Short jumper

The Outputs listed below are available in any combination for activation from any of the four assigned inputs (options 14-17).

- | | |
|--------------|-----------------|
| 1 Main Relay | 3 Output Line 3 |
| 2 Aux Relay | 4 Output Line 4 |

DOOR AJAR INPUT * 14

Door ajar occurs when a door is left open after a valid entry or exit. Door ajar has a 30 second delay past the Main Relay time before it activates. If the Main Relay is programmed for an output time of 10 seconds, a Door ajar alarm will sound in 40 seconds.

EXAMPLE: To assign the door ajar input to the Auxiliary Relay touch * 14 2 #

FORCED ENTRY INPUT * 15

Forced Entry occurs when the door is opened without a preceding code or RTE.

EXAMPLE: To assign the forced entry input to the Aux Relay and Output Line 4 touch * 15 24 #

PANIC INPUT * 16

A panic condition occurs when the * and # are touched together. The * and # have no key beep for a silent activation.

EXAMPLE: To assign the panic input to the Main Relay and Output Line 3 touch * 16 13 #

REQUEST-TO-EXIT INPUT * 17

A RTE condition occurs when the RTE input line is shorted to common or ground.

EXAMPLE: To assign the Request-To-Exit input to the Main Relay touch * 17 1 #

DISABLE/ENABLE KEY BEEP * 18

The beep sounds each time a key is depressed unless toggled off. This will not disable the programming beeps.

This option toggles the key beep on/off.

EXAMPLE: To disable the key beep touch * 18 # to enable the beep again touch * 18 #

SET CODE LENGTH * 19

Set the code length for 3, 4, 5, or 6 digits. Factory default is 5 digits. The code length selected applies for all codes.

EXAMPLE: For a 6 digit code touch * 19 6 #

ACTIVATE THE PRINTER OUTPUT * 20

If the printer output line is switched ON, user codes cannot be directed to Output Line 4.

If you wish to use a printer touch * 20 #

SET THE MAIN RELAY TIME * 21

Programs the Main Relay for latching (00) or momentary (01 - 99 seconds) operation.

EXAMPLE: To program the Main Relay for 9 seconds touch * 21 09 #, to latch it on/off touch * 21 00 #

SET THE AUX RELAY TIME * 22

Programs the Aux Relay for latching (00) or momentary (01 - 99 seconds) operation.

EXAMPLE: To program the Aux Relay for 9 seconds touch * 22 09 #, to latch it on/off touch * 22 00 #

SET OUTPUT LINE 3 TIME * 23

Programs Output Line 3 for latching (00) or momentary (01-99 seconds) operation.

EXAMPLE: To program Output Line 3 for 10 seconds touch * 23 10 #, to latch it on/off touch * 23 00 #

SET OUTPUT LINE 4 TIME * 24

Programs Output Line 4 for latching (00) or momentary (01-99 seconds) operation.

EXAMPLE: To program output line 4 for 7 seconds touch * 24 07 #, to latch it on/off for touch * 24 00 #

ERASE ALL MEMORY * 25

Erases any previously programmed options and returns to default settings. EXAMPLE: To erase everything touch * 25 #

ERASE CODES ONLY * 26

Erases all codes programmed into memory. EXAMPLE: To clear all codes touch * 26 #

EXIT PROGRAM MODE * 99

Allows the keypad to return "on-line".

EXAMPLE: To exit program mode and return "on-line" touch * 99 #

SPECIFICATIONS

Input Voltage: 12 Volt DC Only

Power Consumption: 120ma with all outputs; 20ma idle

Outputs:

Main Relay: Form C/A, 5amp 30 volt

Aux Relay: Form C, 1amp 30 volt

Aux Voltage: Switches to (-) 50ma

Operating Temp: -18C to 55C (0F to 131F)

Dimensions:

Single gang plate:

2.75" X 4.5" (53mm X 40mm)

Double gang plate:

4.56" X 4.5" (115mm X 114mm)

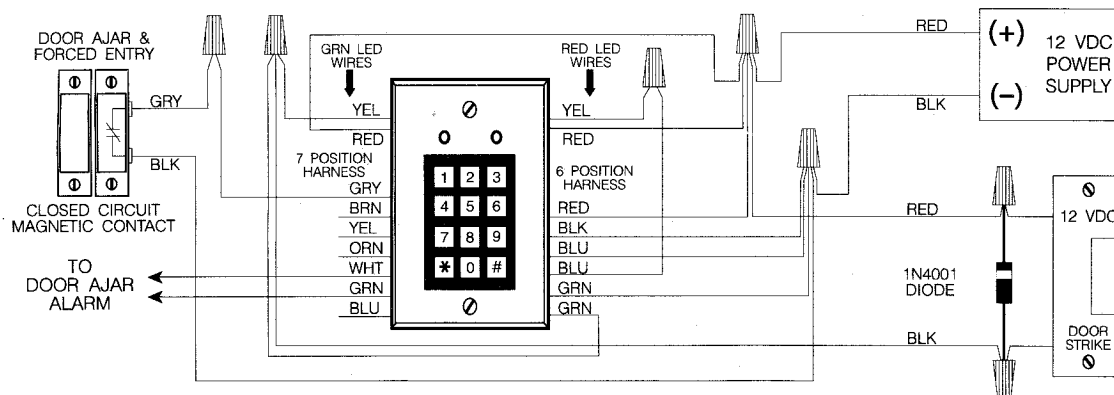
Heavy Duty plate:

3.23" X 5.0" (84mm X 127mm)

Lock Box:

4.75" X 5.3" (120mm X 133mm)

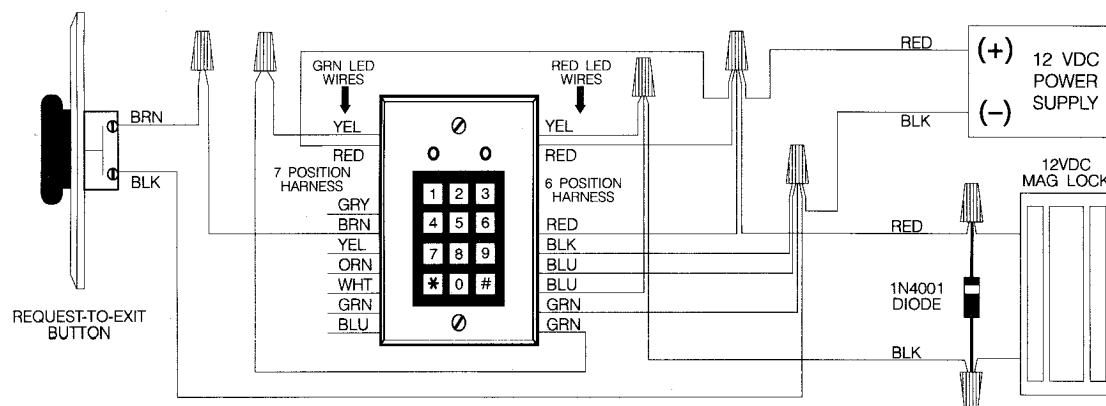
FIG. 1 OPERATE A 12VDC DOOR STRIKE WITH DOOR AJAR AND GREEN & RED LED INDICATORS



PROGRAMMING STEPS

- 1) ***2105#** Sets Main Relay time for 5 seconds
 - 2) ***142#** Sets Door Ajar Output to the Auxiliary Relay
 - 3) ***2202#** Sets Auxiliary Relay time for 2 seconds from Door Ajar
 - 4) ***1154321##** Sets the code 54321 to operate the Main Relay
- When the code 54321 is entered, the Main Relay will open the door. If held open 30 seconds over the relay time the Aux Relay activates.

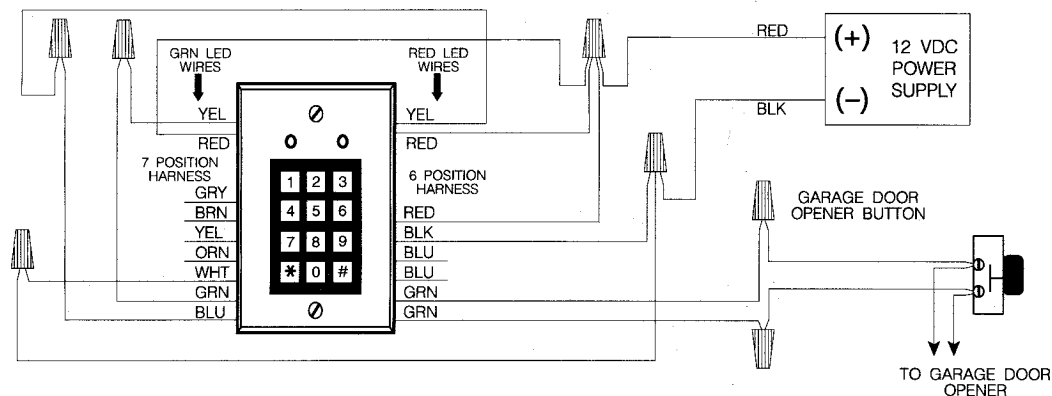
FIG. 2 OPERATE A 12VDC MAGNETIC LOCK WITH REQUEST-TO-EXIT AND GREEN & RED LED INDICATORS



PROGRAMMING STEPS

- 1) ***2105#** Sets Main Relay time for 5 seconds
 - 2) ***171#** Sets Request-To-Exit to operate the Main Relay
 - 3) ***1154321##** Sets the code 54321 to operate the Main Relay
- When the code 54321 is entered or Request-To-Exit is activated, the Main Relay will open the door and change the LED status from red to green.

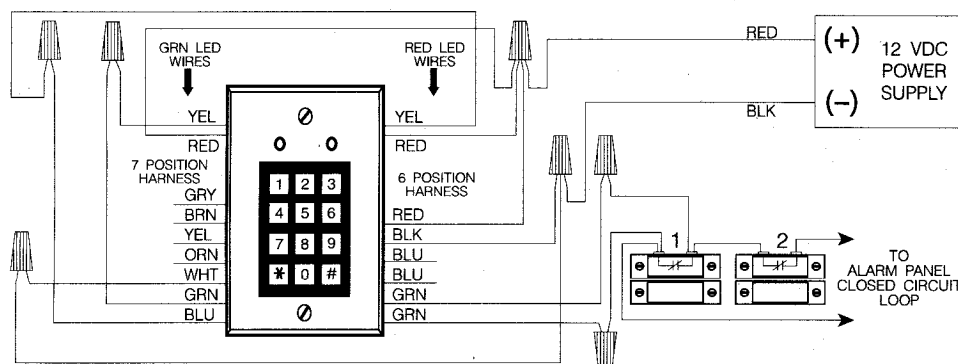
FIG. 3 OPERATE AN ELECTRIC GARAGE DOOR OPENER WITH GREEN & RED LED INDICATORS



PROGRAMMING STEPS

- 1) ***2105#** Sets Main Relay time for 5 seconds
 - 2) ***2205#** Sets Auxiliary Relay time for 5 seconds
 - 3) ***1198765#12#** Sets the code 98765 to operate the Main Relay and the Auxiliary Relay
- When the code 98765 is entered the Main Relay will open the door and the Auxiliary Relay will change the LEDs from red to green.

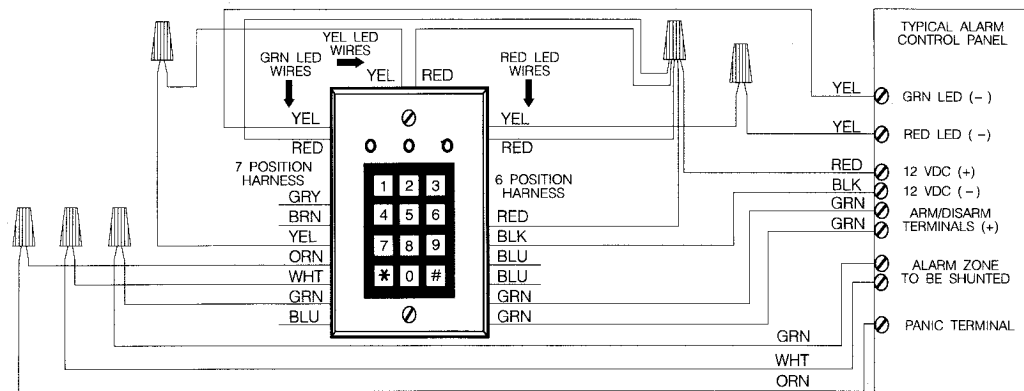
FIG. 4 SHUNT CONTACT #1 IN A CLOSED CIRCUIT ALARM LOOP WITH GREEN & RED LED INDICATORS



PROGRAMMING STEPS

- 1) ***2100#** Sets Main Relay time latching (on / off)
 - 2) ***2200#** Sets Auxiliary Relay time for latching (on / off)
 - 3) ***1198765#12#** Sets the code 98765 to operate the Main Relay and the Auxiliary Relay
- When the code 98765 is entered the Main Relay will shunt zone 1 until the code is entered again. A red LED indicates the zone is "in-the-loop". When the zone is shunted the green LED will be on.

FIG. 5 ARM & DISARM AN ALARM PANEL WITH ZONE SHUNTING AND PANIC

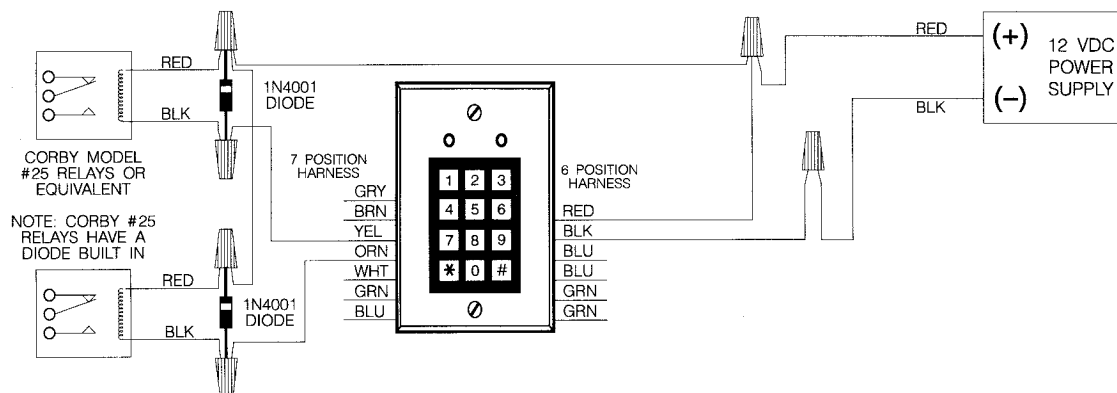


PROGRAMMING STEPS

- 1) ***2102#** Sets Main Relay time for 2 seconds
- 2) ***2200#** Sets Aux Relay for latching
- 3) ***2400#** Sets Output Line 4 for latching
- 4) ***2302#** Sets Output Line 3 for 2 seconds
- 5) ***1154321#** Sets the code 54321 to operate the main relay
- 6) ***163#** Sets panic to operate Output Line 3
- 7) ***1198765#24#** Sets the code 98765 to operate the Aux Relay and Output Line 4 for a shunt

When the code 54321 is entered it will turn on/off the alarm panel. When * and # (panic) are pressed Output Line 3 triggers duress. When the code 98765 is entered it will operate the Aux Relay and Output Line 4 for the zone. When the red LED is off the zone is in the loop. When the red LED is on the zone is bypassed.

FIG. 6 FOR ADDITIONAL DRY CIRCUIT OUTPUTS, ADD TWO RELAYS TO OUTPUT LINES 3 & 4

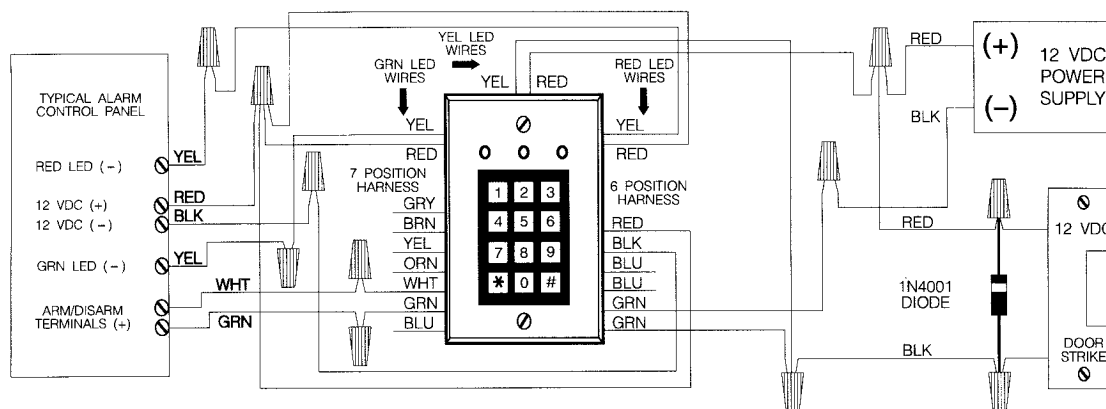


PROGRAMMING STEPS

- 1) ***2300#** Sets Output Line 3 for latching operation
- 2) ***2405#** Sets Output Line 3 for 5 seconds
- 3) ***1154321#34#** Sets the code 54321 to operate the Output Lines 3 & 4

When the code 54321 is entered Output Lines 3 and 4 will trigger the additional relays.

FIG. 7 OPERATE A DOOR STRIKE AND ARM/DISARM AN ALARM PANEL. THE GREEN AND RED LED INDICATORS MONITOR THE ALARM PANEL. THE YELLOW LED INDICATES DOOR STRIKE OPERATION.

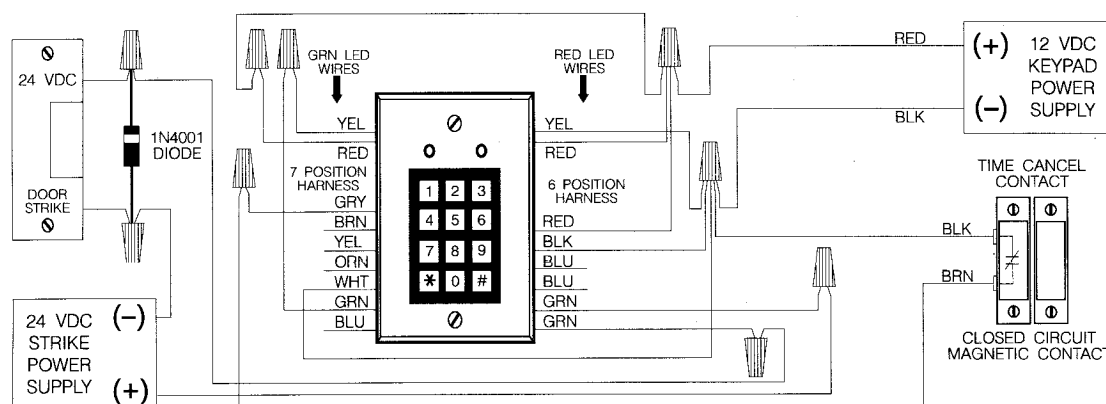


PROGRAMMING STEPS

- 1) ***2105#** Sets Main Relay time for 5 seconds
- 2) ***2202#** Sets the Aux Relay time for 2 seconds
- 3) ***1154321#** Sets the code 54321 to trigger the Main Relay
- 4) ***1198765#2#** Sets the code 98765 to operate the Aux Relay for arm/disarm

When the code 54321 is entered it opens the door and triggers the yellow LED. When the code 98765 is entered it will arm/disarm the alarm panel. The red and green LEDs indicate the alarm panel status.

FIG. 8 OPERATE A 24VDC DOOR STRIKE & POWER THE KEYPAD FROM A SEPARATE 12VDC SOURCE. THE GREEN LED INDICATES DOOR STRIKE OPERATION. THE RED LED MONITORS THE 12VDC SUPPLY.



PROGRAMMING STEPS

- 1) ***2130#** Sets Main Relay time for 30 seconds
- 2) ***2230#** Sets RTE to activate the Aux Relay for 30 seconds
- 3) ***1198765#12#** Sets the code 98765 to operate the Aux and Main Relays

When the code 98765 is entered the door strike will activate for 30 seconds switching the LED status from red to green. If the door closes before 30 seconds any remaining relay time will cancel.