

COMPACT KEYBOARD CONTROLLERS

MANUAL



SPECIFICATION

- Two independent channels
- Up to 50 access codes per channel
- Access Codes can be 4, 5 or 6 digits in length
- Timed lock drives from 1 to 99 seconds
- Lock timers can be latched open at the keyboard
- Lock timers can be set to 0 for toggle operation
- Anti Tailgate feature on both channels
- Separate door monitoring and RQE inputs for each channel
- Separate door forced alarm outputs
- Volts free NC Tamper switch
- Duress output
- Integral Prolonged Door Open Alarm
- Separate three colour indicators for each channel
- User definable 6 digit programming code
- Simple menu driven programming procedure
- 4 menu functions per channel
- Incorrect code penalty delay timer
- Voltage free changeover contacts for lock control

OPERATION



INDICATORS

A coloured indicator is provided for each channel. The colours of these indicators have the following meanings.

LED Colour	Meaning
Red	Lock Closed
Green	Lock Open
Amber	PDO Alarm
Flashing Off	Programming
Short blink to Off	Keyboard Key Push



SOUND

Sound is used to give the user additional feedback on the status of the controller and progress during programming.

Sound	Meaning
Continuous Two Tone, High Volume	PDO Alarm
Four Notes "Low – High - Low – High"	Programming Mode
Two Notes "Low - High"	Confirm Programming Change
Two Notes "High - Low "	Programming Error
Single Short Note "High"	Keyboard Key Push

USING ACCESS CODES

Access codes can be four, five or six digits in length. To operate one of the channels simply enter one of the programmed access codes for that channel. If a correct code is entered then the LED indicator for that channel will change to green and the output relay will activate. Access codes can be changed to indicate Duress. Note this feature must be enabled if required. See "RESTORING FACTORY DEFAULT SETTINGS" later in this manual.

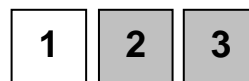
HOLDING A CHANNEL OPEN

If a channels lock timer is programmed for timed operation, the operator can override this and hold the output open. To do this, simply enter the access code for that door. Once the output is activated and the LED indicator is showing green, push and hold the 1 & 2 keys as a pair. This will hold open channel A. Use the 2 & 3 keys for channel B. To cancel the latched state of a channel simply enter a valid access code again.

HOLD OPEN A



HOLD OPEN B



TOGGLE MODE

If the lock time for a particular channel has been set to zero then each time a correct code is entered for that door or the RQE input activated, the output relay will "Toggle" to the opposite state. And stay in that new state until another code or RQE is detected.

Each channel has its own lock time thus either or both channels can be selected to "toggle" or "timed" operation. One channel can be used to open a door, and the other channel used to turn on and off a piece of equipment.



ALARMS

PDO

The purpose of the Prolonged Door Open (PDO) alarm is to act as a reminder that a door is a security door and should not be wedged or held open for too long. If the door sensor has been connected then each time the door is detected opening a PDO timer starts. If this timer reaches a pre set value before the door closes, a two-tone PDO alarm will be heard from the keyboard.

PDO alarm cancels automatically when the door is closed. The PDO alarm is not active if the door is open due to Toggle or Keyboard command. The PDO alarm sound can be muted by using program function * 8.

DOOR FORCED

The operation of the door forced alarm depends on the ability of the controller knowing when the door has been opened legitimately or not. In order to do this both the door sensor input and the ReQuest to Exit (RQE) inputs must be wired. Thus if the door is detected as opening without the lock being released then a Door Forced alarm will go active and latch. Door forced alarms can only be cancelled by entering a valid access code for that door.

DURESS

If the duress feature is turned on, a duress alarm is generated when one enters an access code with the last digit incremented. For example if your access code is "1 2 3 4" then if you enter "1 2 3 5" the door will be released as normal but also the duress alarm output will go active and latch. A duress alarm can only be cancelled by entering the valid programming code. If the duress feature is turned off, then "1 2 3 5" would not open the door. See "RESTORING FACTORY DEFAULT SETTINGS" later in this manual.

Safety Notes and Disclaimers

Please read this manual carefully before attempting to install, program or operate the PROGENY PCAx00 range of combined keyboard controllers. At the back of this manual there is a quick reference to programming command sequences.

This equipment must be installed in line with all relevant regulations and standards.

This equipment should be powered by a power supply classed as SELV, as defined in BS EN 60950. All connections to this unit must also be SELV.

Make sure that wiring is rated according to fuses and current limits of relevant power supplies.

Every effort is made to ensure that this manual is complete and free from errors. However we reserve the right to make changes to these products and this manual without notice.

No liability is accepted for loss damage or injury as a consequence of using these products or instructions.

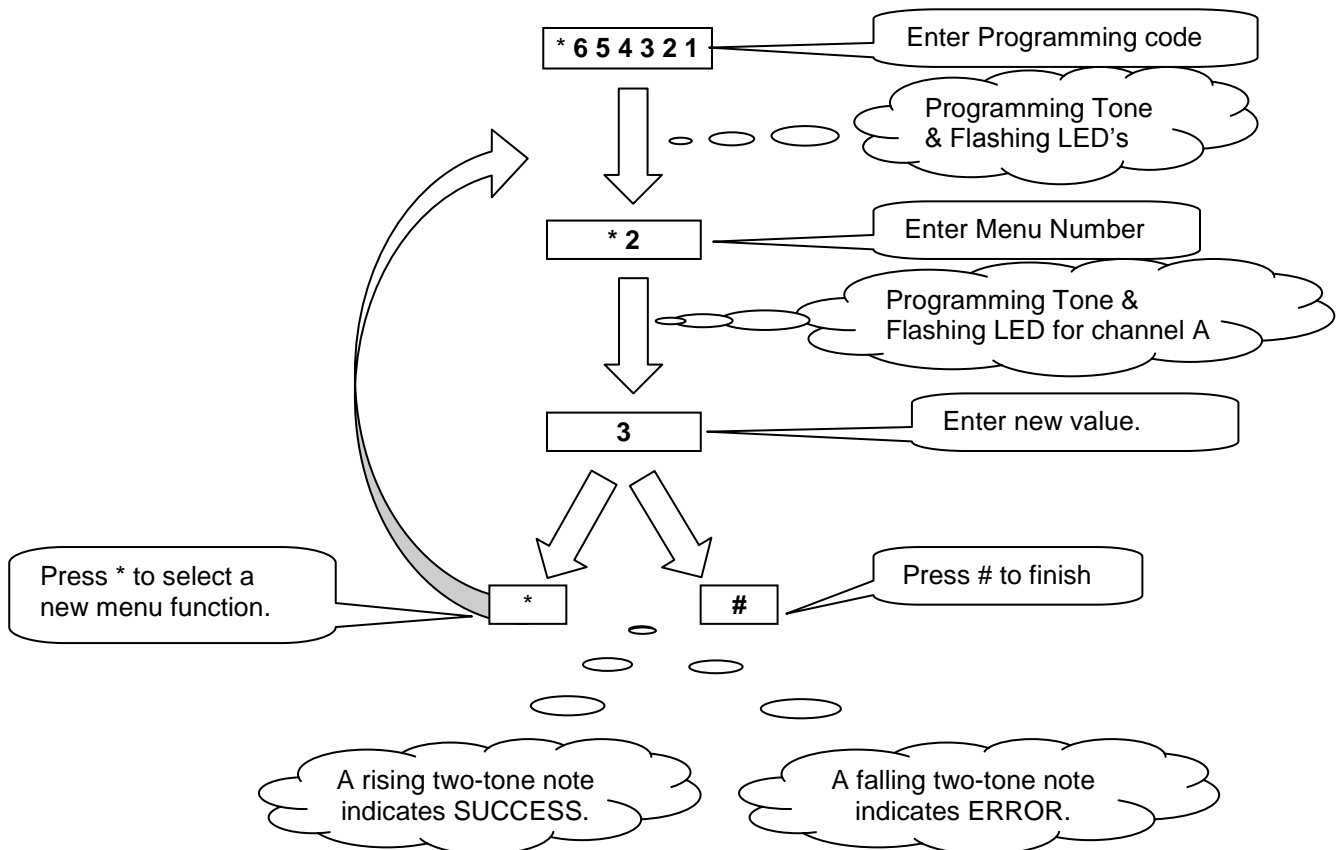
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PROGRAMMING

Programming is achieved by entering the programming code at the keyboard followed by a menu selection code. Depending on the menu option selected data can then be entered at the keyboard. The menu functions available and default settings are as follows:

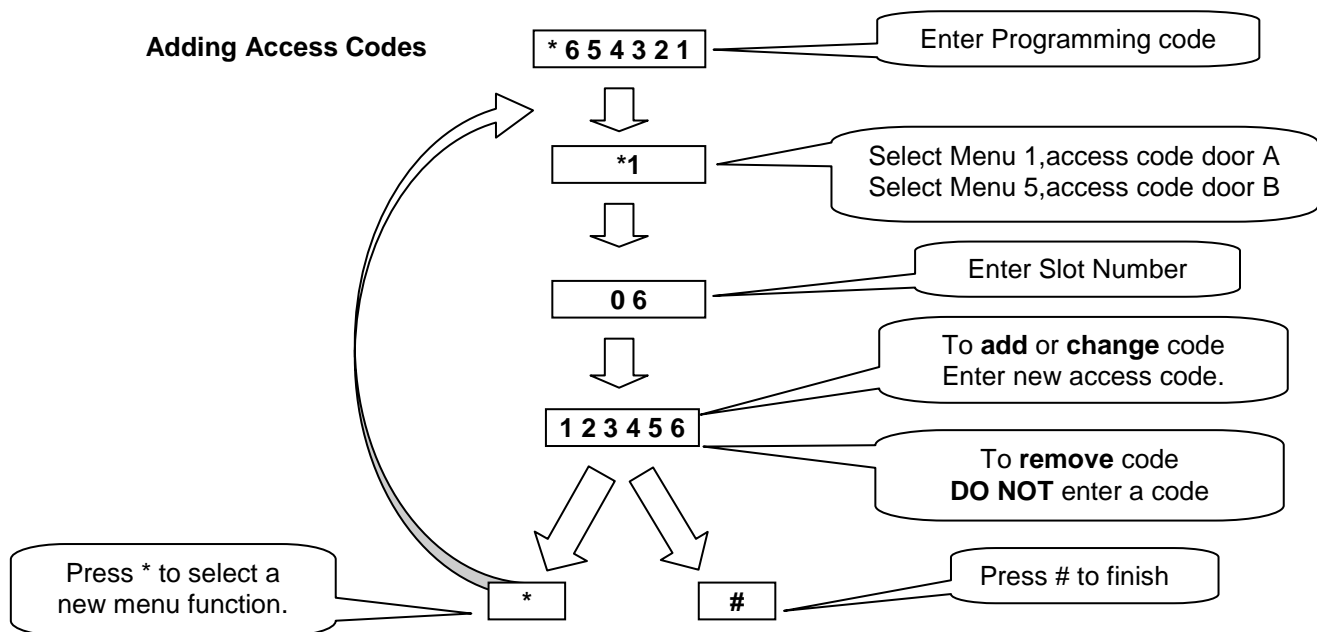
MENU #	DESCRIPTION	DEFAULT SETTINGS
* 0	PROGRAMMING CODE	6 5 4 3 2 1
* 1	ACCESS CODE FOR CHANNEL A	NONE
* 2	LOCK TIME FOR CHANNEL A	3
* 3	PDO TIME FOR CHANNEL A	0
* 4	NOT USED	NOT USED
* 5	ACCESS CODE FOR CHANNEL B	NONE
* 6	LOCK TIME FOR CHANNEL B	3
* 7	PDO TIME FOR CHANNEL B	0
* 8	PDO ALARM MUTE	Off
* 9	PENALTY TIME	0

Each menu is described in detail in the following sections. The general programming procedure is shown below:



ACCESS CODES

Access codes are used to open a door. Up to 50 access codes can be programmed for each door or channel of the controller. The codes are held in slots or pigeonholes that are numbered 01 through to 50. You can record access codes for these slots using the form at the back of this manual.



Note: avoid duplicating access codes especially between the two channels e.g. '1 2 3 4' for channel A and '1 2 3 4 5 6' for channel B.

REMOVING ACCESS CODES

Removing Individual Access Codes

Follow the same procedure as for adding access codes except after select the slot containing the access code in question simply press * or #. This will clear the code contained at that slot.

Removing All Access Codes for Channel A and B

All access codes for channel A can be removed by removing power to the controller then while holding the number 2 key apply power only releasing the key when a beep is heard from the control unit.

Removing All Access Codes for Channel A

All access codes for channel A can be removed by removing power to the controller then while holding the number 1 key apply power only releasing the key when a beep is heard from the control unit.

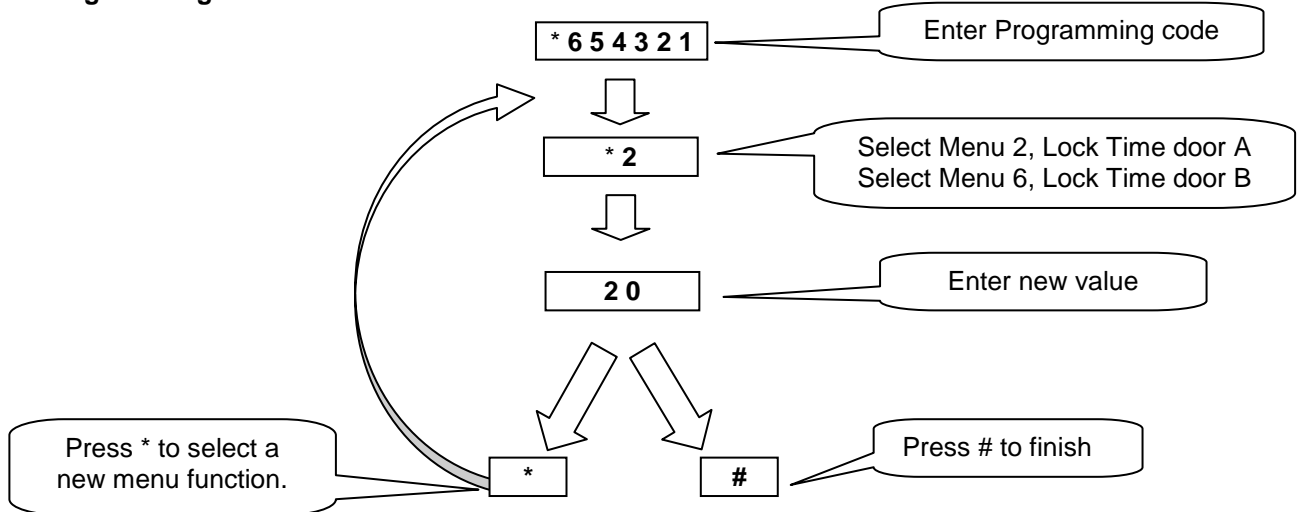
Removing All Access Codes for Channel B

All access codes for channel A can be removed by removing power to the controller then while holding the number 3 key apply power only releasing the key when a beep is heard from the control unit.

LOCK TIME

Lock time is the amount of time that the locking device is released following the entry of a correct access code or the triggering of the RQE input. This may be from 0 to 99 seconds. If set to zero, then each time a correct code is entered the relay will “ Toggle” to the opposite state. If a door sensor is fitted then the anti tail gate feature means that the lock time will be cut short once the door closes again.

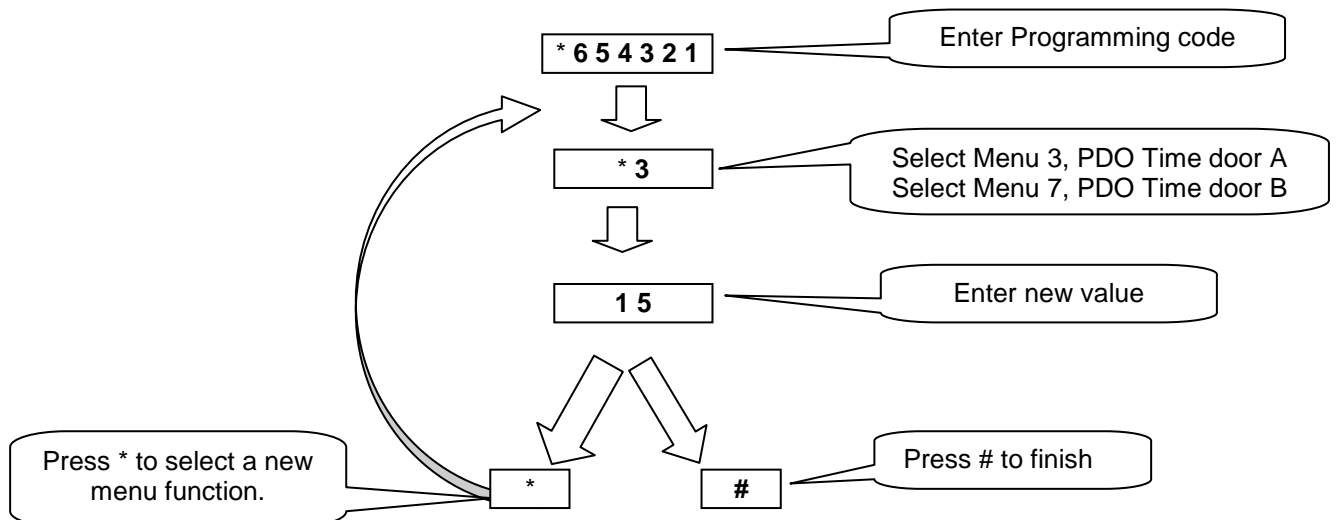
Programming the Lock Time



PROLONGED DOOR OPEN (PDO)

There are connections on the control unit to allow the monitoring of the door open status. PDO is the amount of time the door may be open before triggering an audible alarm from the control unit. This may be from 0 to 99 seconds. If set to zero PDO sensing for that channel is disabled.

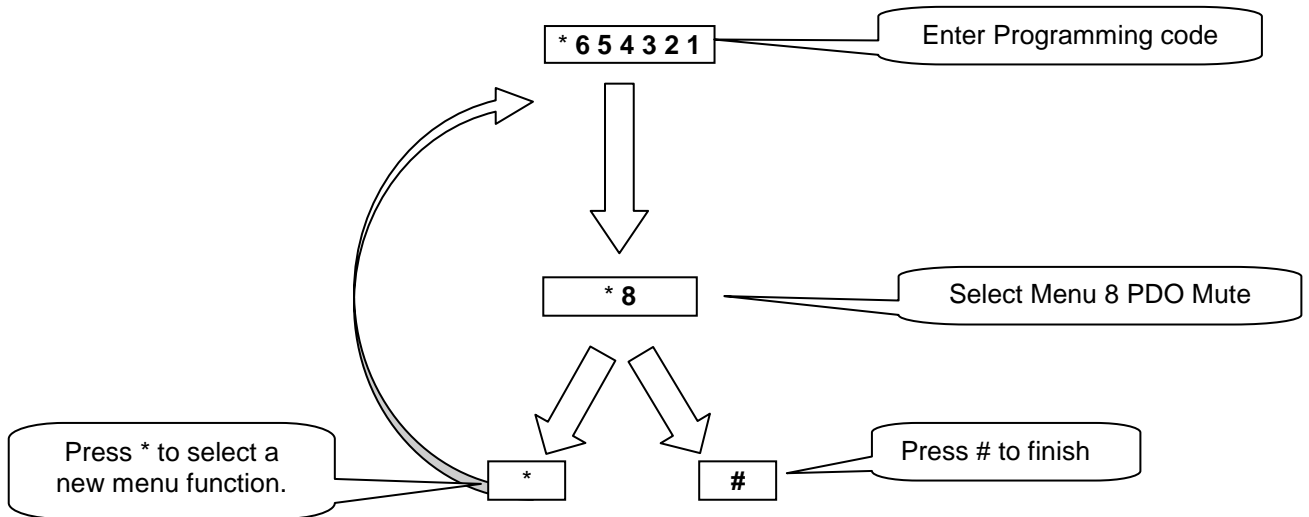
Programming PDO Time



PDO ALARM MUTE

This is the means by which the PDO alarm tone sound can be muted. By using the following procedure the PDO sound will “toggle” between muted and alarm sounding.

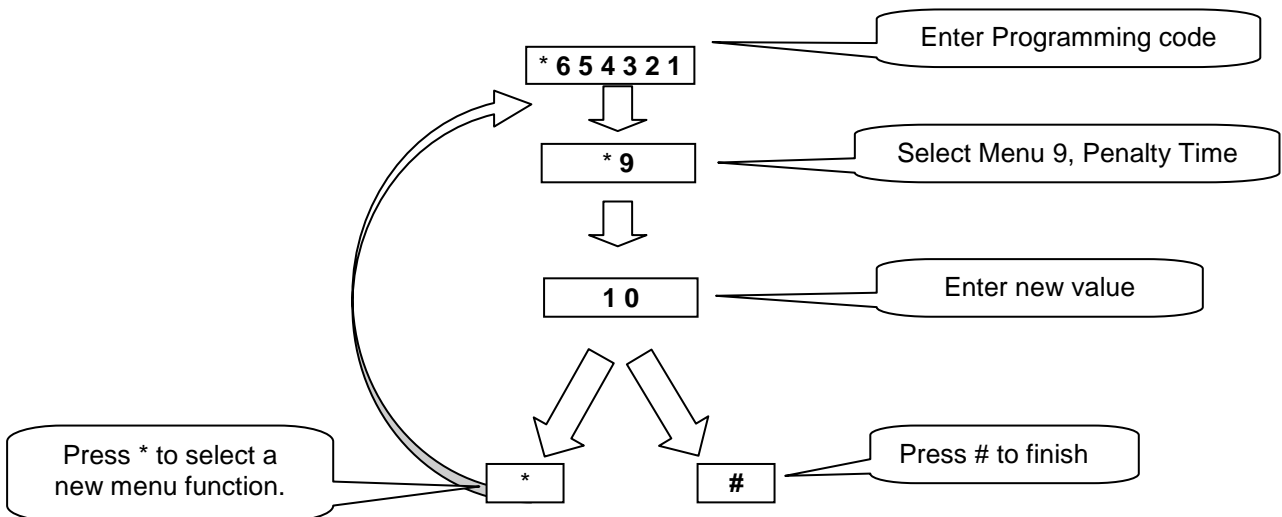
PDO Alarm Mute Procedure



PENALTY TIME

Penalty Time is delay that is incurred if an error is made while entering an access code. This slows down potential hackers to the system. This may be from 0 to 99 seconds. If set to zero, the penalty feature is disabled.

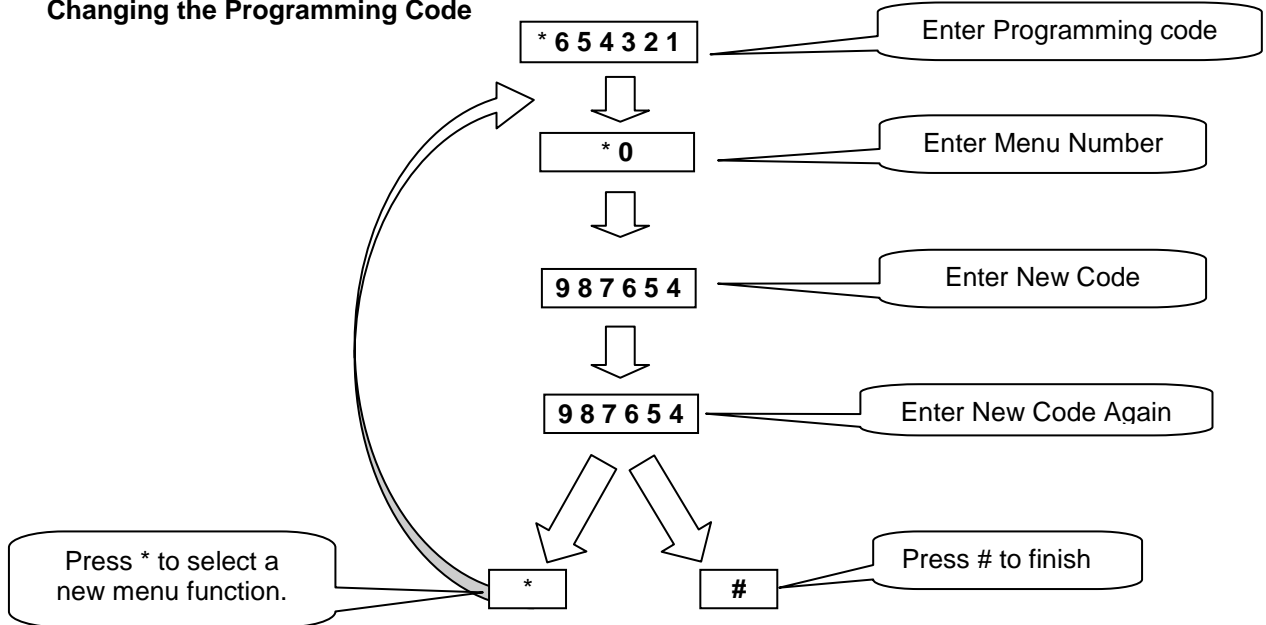
Programming Penalty Time



PROGRAMMING CODE

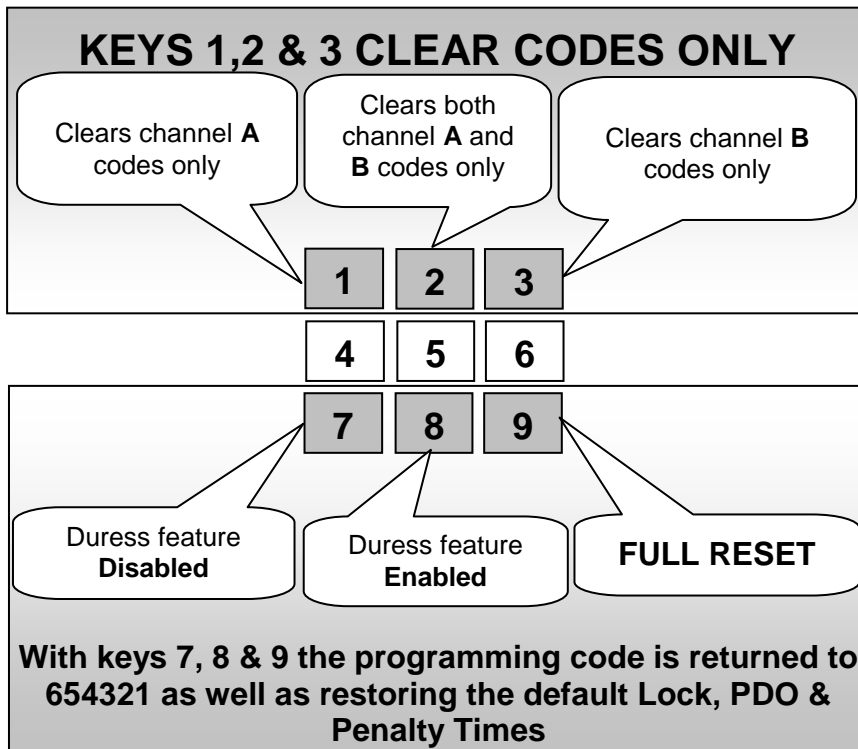
The programming code is the means by which the systems operator gains access to the programming functions. This is a 6-digit number and can be changed by using the following procedure.

Changing the Programming Code



RESTORING FACTORY DEFAULT SETTINGS

Factory defaults can be restored in a number of different ways. Each method offers different results. The procedure consists of first removing power to the controller, then while holding one of the keys, re-apply power. Release the key when a beep is heard from the control unit.



INSTALLATION

MOUNTING

The ideal mounting height for the telephone style readers (2059, 2061, 2064) is between 1.0 and 1.5 metres from the floor. In the case of the ashtray style PCA 800 (product code 2067) is between 0.8 and 1.2 metres from the floor. Choose a position that will be natural for users to be able to enter an access code in secrecy and then open the door.

The mounting procedure for all the controllers is simple. However in the case of PCA 800 and PCA 500 it is a good idea to fully test the system before attaching the final cover or front label. The PCA 700 and the PCA 500 may be mounted internally or externally. If these are being mounted externally, spread silicon compound over the terminals, after connecting and testing.

Ordinary multi core cable may be used. Cable runs should be no greater than 100 metres. There is an earth connection on all the controllers but it is most important to connect this in the case of the two metal units "2064 PCA 700" and "2067 PCA 800". The earth connection should be connected to the electrical safety earth at the power supply.

All other connections are shown in the circuit diagram on the next page. If the locking device does not provide a mechanical means of override for egress and the door forms part of an emergency exit route then additional means of override should be connected. For example a door magnet will only open if the supply is removed even though there may be an RQE button connected for egress, an emergency break glass or fire relay should be wired to break the circuit to the magnet in the case of an emergency. If in doubt consult the local fire officer.

QUICK START GUIDE

Once all the connections are made the following procedure will allow you to test an access code for channel A.

* 6 5 4 3 2 1	Both LEDs will flash
* 1	Channel A LED only will flash
0 1	Slot number
1 2 3 4 #	Access code for slot 01

Now test the code by entering:

1 2 3 4

Channel A LED will turn green and the relay for channel A will open for 3 seconds

ACCESS CODE & SETUP RECORD

PROGRAMMING CODE			DURESS ON / OFF		
CHANNEL A			CHANNEL B		
No.	LOCK TIME PDO TIME CODE*	NAME	No.	LOCK TIME PDO TIME CODE*	NAME
01			01		
02			02		
03			03		
04			04		
05			05		
06			06		
07			07		
08			08		
09			09		
10			10		
11			11		
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49			49		
50			50		







Product Code	Description	
Controllers & Accessories		
2059	Membrane Compact Keyboard Controller	
2064	Vandal resistant Compact Keyboard Controller	
2067	Spy-proof Compact Keyboard Controller	
2131	Flush back box for 2064	
2132	Surface back box for 2064	

- Internal or External Use
- Vandal Resistant
- Internal Use Only
- Suitable for Photo ID Printing