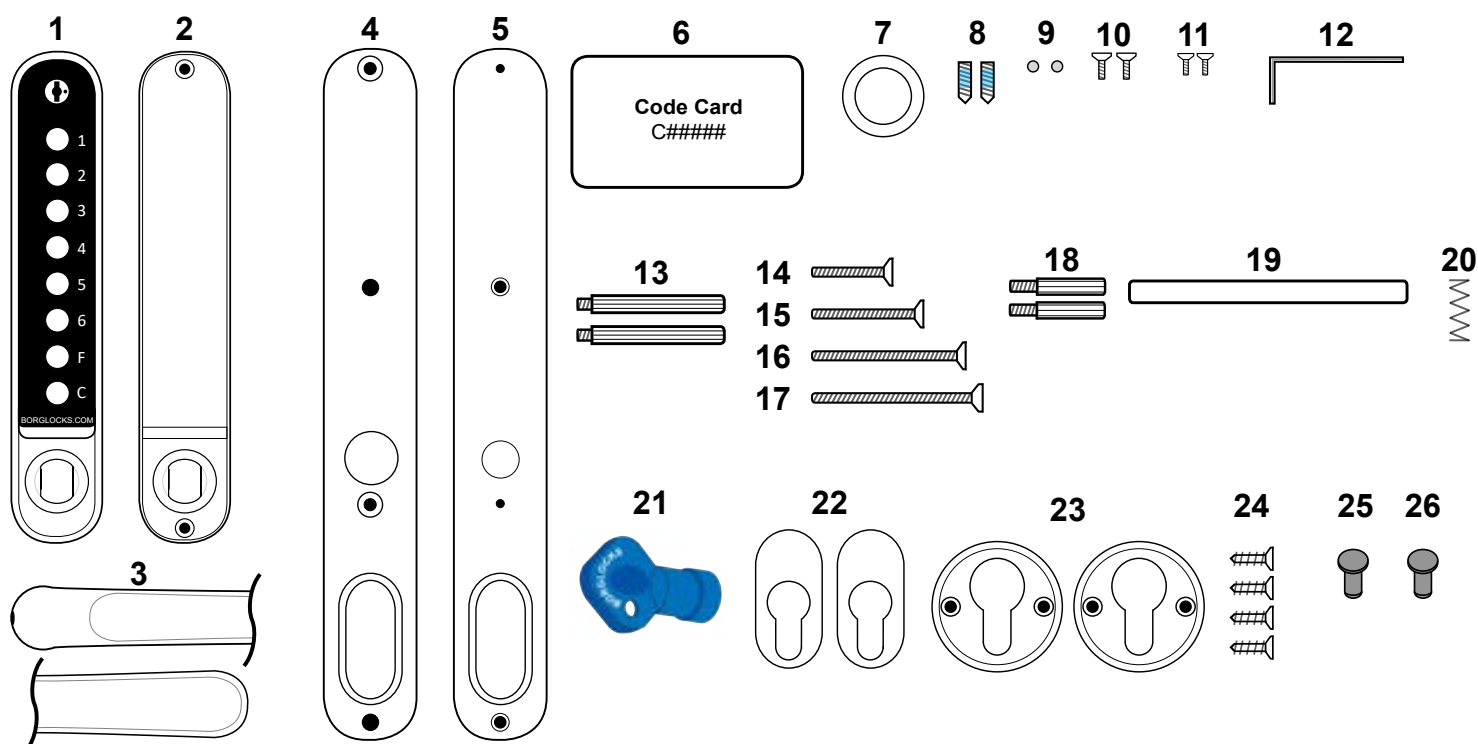


Parts List & Contents



Part No.	Description	Model (Contents supplied with unit)	
		BL6000 ECP	BL6100 ECP
1	Keypad Body	•	•
2	Inside Handle Body	•	•
3	Lever Handle x2 (Larger Handle for Keypad)	•	•
4	Keypad Extension Plate (Larger Spindle Hole)		•
5	Inside Extension Plate (Smaller Spindle Hole)		•
6	Code Card	•	•
7	Handle Washers	•	•
8	Grub Screws (x2)	•	•
9	Grommets (x2)	•	•
10	Keypad Extension Plate M5 Retaining Screws (x2)		•
11	Inside Extension Plate M4 Retaining Screws (x2)		•
12	Hex Key (2.5mm)	•	•
13	53mm Hexagon Fixing Posts (x2)		•
14	25mm M4 Machine Screw (x2)	•	•
15	40mm M4 Machine Screw (x2)	•	•
16	60mm M4 Machine Screw (x2)	•	•
17	80mm M4 Machine Screws (x2)	•	•
18	25mm Hexagon Fixing Posts (x2) *1 supplied with BL6100 ECP Models	•	•*
19	120mm 8mm Spindle Bar	•	•
20	Inside Handle Spindle Follower Spindle Spring	•	•
21	Code Change Key	•	•
22	BL6100 ECP Integrated Extension Plate Escutcheons (x2)		•
23	BL6000 ECP Separate Escutcheons (x2)	•	
24	Separate Escutcheons Screws (x4)	•	
25	Deactivating on door code change plug (x1)	•	•
26	Deactivating Free Passage Plug (x1)	•	•

Preparation

Please check that all parts are working correctly. Once the lever handles have been fitted to the keypad and inside handle, enter the factory preset code as printed on the code card (**Part No.6**), rotate the lever handle on the keypad downwards, re-enter the code and turn the handle upwards ensuring that the spindle follower on the back of the keypad rotates each time - an audible click should be heard every time a correct code is entered and the lever handle is turned.

Please note: whilst the handle will turn, the spindle follower on the back of the keypad will not rotate until the correct code has been entered, this is designed to prevent misuse/abuse.

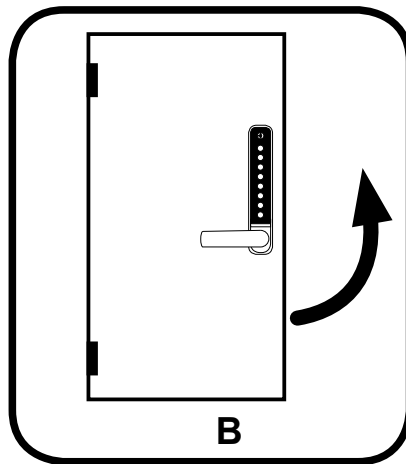
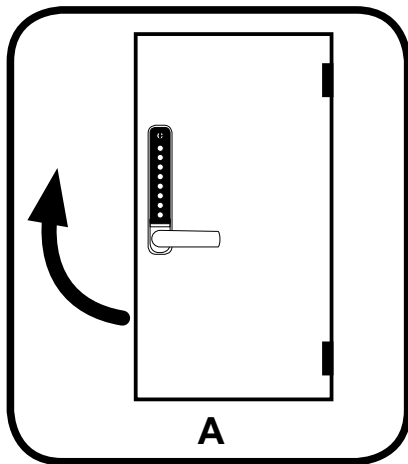
Both lever handles on the keypad and inside handle should return easily under their own spring pressure. Please refer to 'Fitting the lever handles' on page 3.

DETERMINING THE HAND OF THE DOOR/GATE

Many of the installation instructions refer to the handing of the door. The hand of the door is determined with the door in its closed position from the exterior or keypad side of the door.

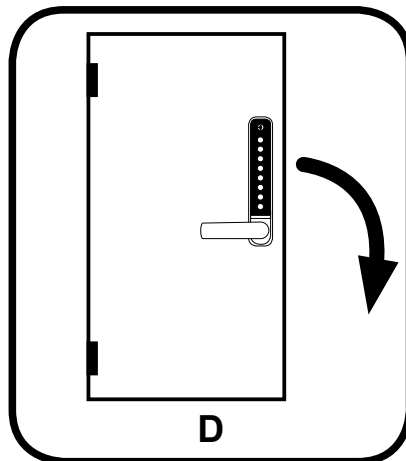
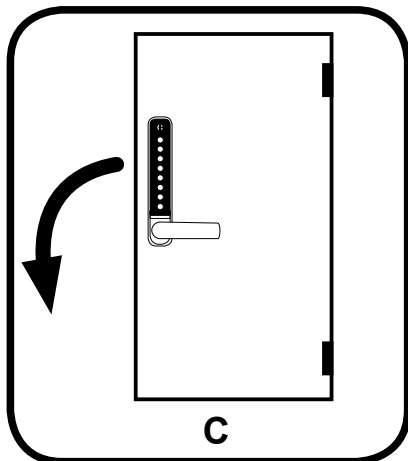
A) Right hand door – door opens inward (push), hinged on the right side.

B) Left hand door – door opens inward (push), hinged on the left side.



C) Right hand outward opening – door opens outward (pull), hinged on the right side.

D) Left hand outward opening – door opens outward (pull), hinged on the left side.



Preparation

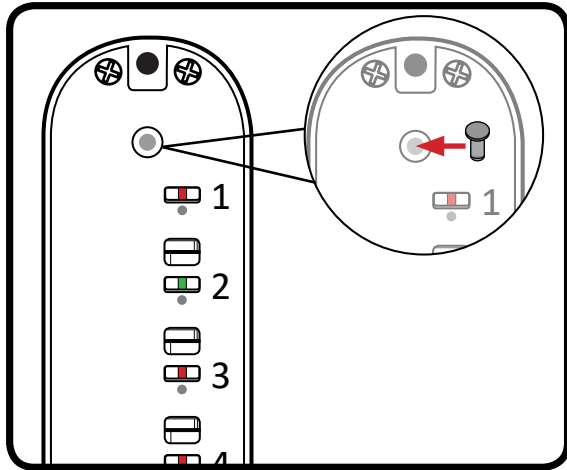


Fig.1

DEACTIVATING ON THE DOOR CODE CHANGE (OPTIONAL)

In the event where it is known the code will never need to be changed on the door, the deactivating on door code change plug (**Part No.25**) can be fitted prior to the unit being fitted to the door.

On the back of the keypad behind the  code change button you will see a hole with a indicating arrow.

Using the on door code change deactivation plug (**Part No.25**), insert into the hole with the indicating arrow. Ensure that the pin sits flush with the back of the coding chamber as per **Fig.1**.

Please note that if the on door code change deactivation plug is fitted and the unit is fitted to the door, the code will not be able to be changed on the door. If at a later date the on the door code change function is required, the unit will need to be removed from the door and the on door code change deactivation plug removed.

DEACTIVATING THE FREE PASSAGE FUNCTION (OPTIONAL)

The free passage is a function of the keypad which allows the keypad handle to freely turn and continuously open the door.

In the event where it is known the free passage mode will never be required, the deactivating free passage plug (**Part No.26**) can be fitted prior to the unit being fitted to the door.

Using the free passage deactivation plug (**Part No.26**), insert into the hole with the indicating arrow. Ensure that the pin sits flush with the back of the coding chamber as per **Fig.2**.

Please note that if the free passage deactivation plug is fitted and the unit is fitted to the door, the F button will be solid and free passage function will not operate. If at a later date the free passage function is required, the unit will need to be removed from the door and the free passage deactivation plug removed.

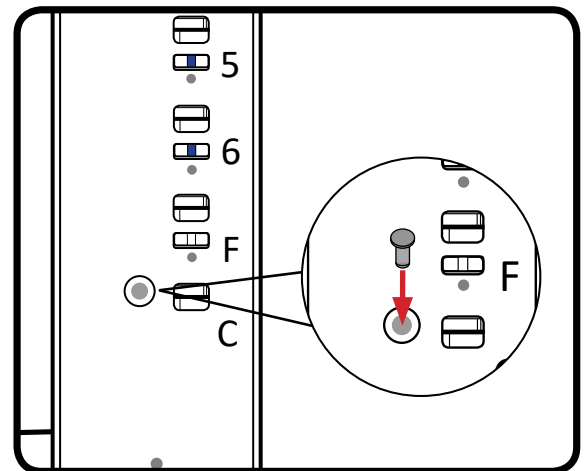


Fig.2

FITTING THE LEVER HANDLES

The unit is non-handed and the lever handles (**Part No.3**) are not supplied fitted. Once you have determined the handing of door and unit, the lever handles can be fitted to the keypad and inside handle. The larger lever handle is fitted to the keypad and the smaller handle to the inside handle.

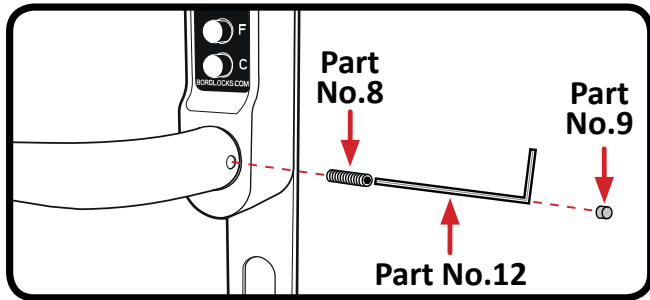
There is an optimum amount of handle washers on both the keypad and inside handle out of the box. If the handles are loose, spares in the accessory pack are provided (**Part No.7**) and can be placed around the handle holder before the handle is secured.

The lever handles are secured to the handle holder using the grub screws (**Part No.8**) and tightened using the hex key (**Part No.12**). When the lever handles have been secured, the grommets (**Part No.9**) can be pushed into the grub screw hole - See **Fig.3** and **Fig.4** on page 4.

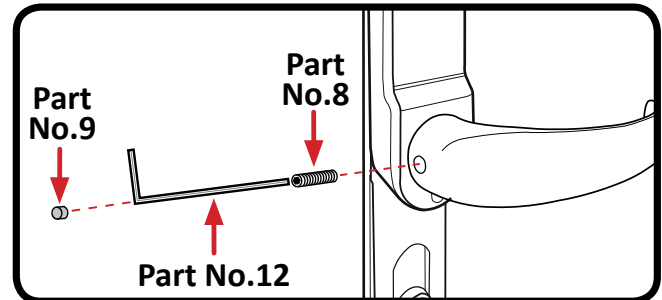
With the lever handles secured to the keypad and inside handle turn the lever handle upwards and downwards to ensure that they return under their own spring pressure to the horizontal position. If the handle does not return under it own spring pressure loosen the grub screw by 1/4 of a turn until it springs back.

Preparation & Installation

FITTING THE LEVER HANDLES - CONTINUED



Keypad - Fig.3



Inside Handle - Fig.4

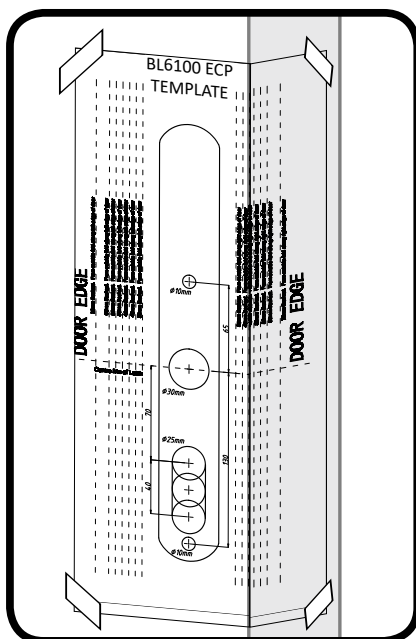


Fig.5

APPLY THE DRILLING TEMPLATE & DRILLING THE DOOR

BL6000 ECP MODEL

Tape the template to the door using the backset line for backset lock in the door per Fig.5. The backset is measured from the edge/faceplate of the lock to the centre of the spindle.

When the template is in the correct position, mark the 2 x 10mm and 1 x 30mm holes. All 3 holes will need to be drilled through the door.

BL6100 ECP MODEL - WITH EXTENSION PLATES

Tape the template to the door using the backset line for backset lock in the door per Fig.5. The backset is measured from the edge/faceplate of the lock to the centre of the spindle.

When the template is in the correct position, mark the 2 x 10mm, 1 x 30mm and 3 x 25mm holes. All 6 holes will need to be drilled through the door. The bottom 3 x 25mm holes are for the Euro cylinder (if not already pre-drilled).

FITTING THE HEXAGON FIXING POSTS (PART NO.18) - BL6000 ECP MODELS ONLY

Screw both of the hexagonal fixing posts (**Part No.18**) into threaded holes at the top and bottom on the back of the keypad as shown in Fig.6.

The fixing posts will need to be fitted to allow the machine screws to secure into the thread. The thread of the machine screws supplied (**Part No.14/15/16 & 17**) will not screw directly into the thread of keypad.

With the posts fitted, it will be easier to locate the machine screws from the inside handle side when tightening on the door.

Please Note: Do not over tighten the hexagonal support posts as this may strip the thread on either the post itself or the thread in the back of the keypad.

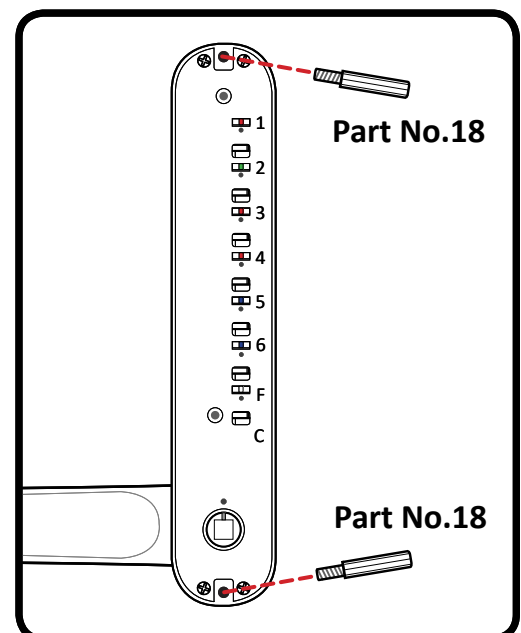


Fig.6

Preparation & Installation

FITTING THE KEYPAD EXTENSION PLATE - BL6100 ECP MODELS ONLY

The keypad (**Part No.1**) is secured to the keypad extension plate (**Part no.4**) by the keypad retaining screws M5 (**Part No.10**). When attaching the extension plate to the keypad, ensure that countersunk holes are facing away from the back of keypad to allow the screws to sit flush when tightened - See **Fig.7**.

The hexagon fixing posts (**Part No.13**) are fitted into the threaded holes at the bottom and the midway down the plate - See **Fig.7**.

The posts will need to be fitted to allow the machine screw to secure into the thread. The thread of the machine screws supplied (**Part No.14/15/16 & 17**) will not screw directly into the thread of the extension plate.

With the posts fitted, it will be easier to locate the machines screws from the inside when tightening on the door.

Please Note: Do not over tighten the hexagonal support posts as this may strip the thread on either the post itself or the thread in the extension plate.

If fitting to a larger gearbox without through holes - See instructions below.

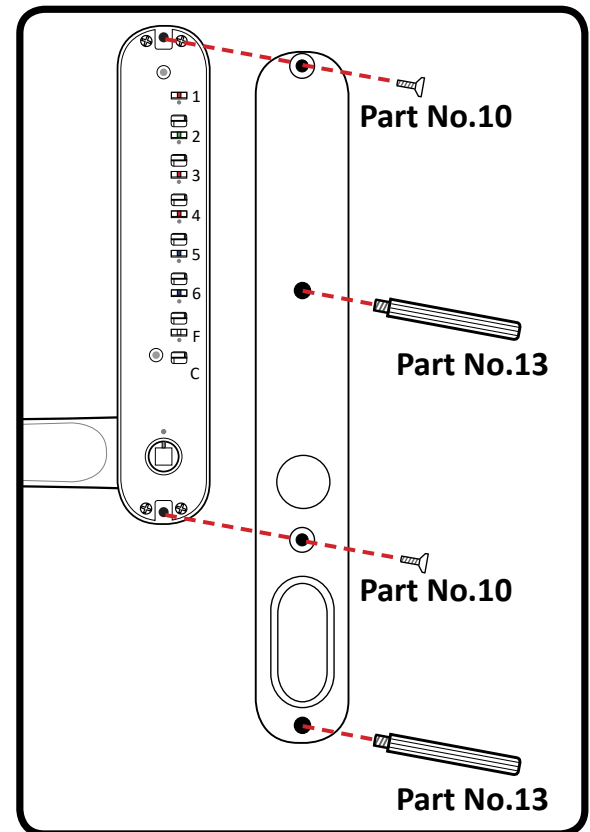


Fig.7

FITTING THE KEYPAD EXTENSION PLATE - BL6100 ECP MODELS ONLY - WITH LARGER GEARBOXES

The XL thread hexagonal fixing post (**Part No.18**) is to be used when fitting with a Lockmaster or multi-point lock with a large gearbox without a through hole/slot for top fixing. Fitting this, moves the top fixing position to the very top and foregoes the fixing in the centre of both extension plates.

This part replaces the M5 keypad retaining screw (**Part No.7**) that would be used in the top countersunk hole to attach the keypad extension plate (**Part No.4**) to the keypad (**Part No.1**).

The male threaded portion of the hexagonal support post (**Part No.18**) passes through the keypad extension plate and directly into the threaded hole in the top of the keypad - See **Fig.8**.

One of the machine screws (**Part No. 14/15/16 or 17**) would replace the top inside extension M4 retaining screw (**Part No.11**) and screw directly through the inside handle (**Part No.2**) and extension plate (**Part No.5**) into the XL thread hexagonal support post (**Part No.18**) on the keypad side.

Optional: The M4 threaded hole in the top of the inside handle extension plate (**Part No.5**) can be drilled out to 5mm to allow the machine screw to pass through.

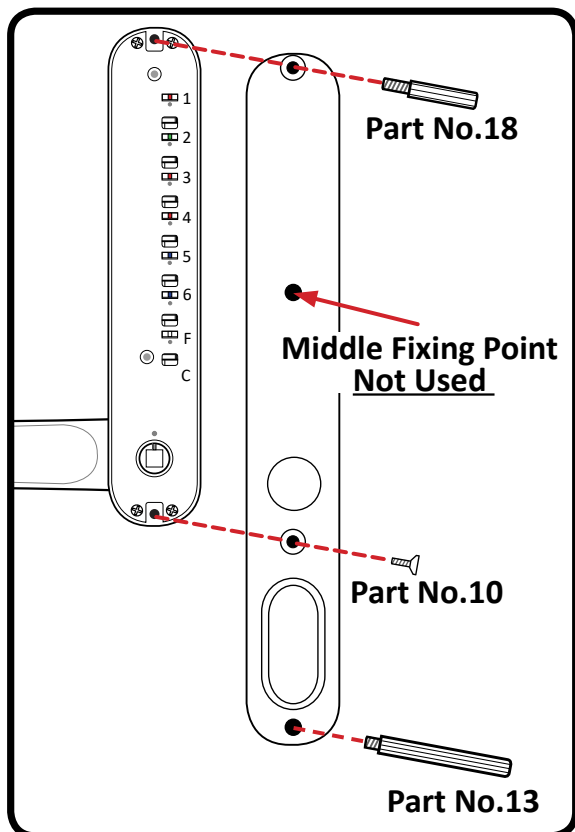


Fig.8

Installation

FITTING THE ESCUTCHEONS

The BL6000 ECP model with separate escutcheons (**Part No.23**) are a simple install. Place the escutcheons over the Euro cylinder fitted into the door and secure in place using 2 x separate escutcheon screws (**Part No. 24**). Depending on the material they are screwing into - a pilot hole may be required. The escutcheons are to be fitted over the Euro cylinder on both sides of the door.

BL6100 ECP ESCUTCHEONS

The integrated escutcheons (**Part No.22**) supplied as standard are to suit 90mm - 92mm fixing centre mechanisms. These are located into the recess on the bottom edge of the extension plate (**Part No.4**). There are two tabs of double-sided tape on recessed edge of the extension plate. Peel the cover off the tape and put the escutcheon into the recess, this will hold the escutcheon plate in position before tightening to the door. The same can be repeated for the inside extension plate (**Part No.5**).

Please note: Alternative fixing centre escutcheons or blanks may be available upon request, please call our helpline on 01708 225700 to check options available.

CUTTING SPINDLE BAR & MACHINE SCREWS

The spindle bar (**Part No.19**) and the longest machine screws (**Part No.17**) are designed to suit door thicknesses up to 85mm by standard and 100mm for the BL6100 ECP model.

The spindle bar will need to cut to size depending on the door thickness. The suggested spindle bar length is calculated by the door thickness, plus an additional 15mm to go into the back of the inside handle for the BL6000 ECP model and 20mm for the BL6100 ECP model.

If for instance the door is 70mm thick, the overall length of the spindle bar would be 85mm - for the BL6000 ECP model and 90mm for the BL6100 ECP model.

BL6000 ECP MODEL SCREW LENGTHS & DOOR THICKNESS

The 25mm machine screws (**Part No.14**) are to be used on door thickness' 25-30mm.
The 40mm machine screws (**Part No.15**) are to be used on door thickness' 35-45mm.
The 60mm machine screws (**Part No.16**) are to be used on door thickness' 55-70mm.
The 80mm machine screws (**Part No.17**) are to be used on door thickness' 75-85mm.

BL6100 ECP MODEL SCREW LENGTHS & DOOR THICKNESS

The 25mm machine screws (**Part No.14**) are to be used on door thickness' 53-65mm.
The 40mm machine screws (**Part No.15**) are to be used on door thickness' 68-70mm.
The 60mm machine screws (**Part No.16**) are to be used on door thickness' 88-98mm.
The 80mm machine screws (**Part No.17**) are to be used on door thickness' 100mm+

For any doors in between the above measurements, the screws can be cut to the required length.

FITTING THE INSIDE HANDLE SPINDLE FOLLOWER SPINDLE SPRING

It is recommend that the spindle spring (**Part No.20**) is fitted into the spindle follower of the inside handle as per **Fig.9** - This prevents the spindle moving out of position if the door is slammed or the spindle is slightly too short. This part is best installed after the lever handles have been fitted.

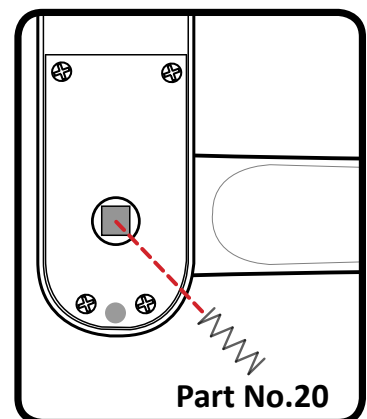


Fig.9

Installation

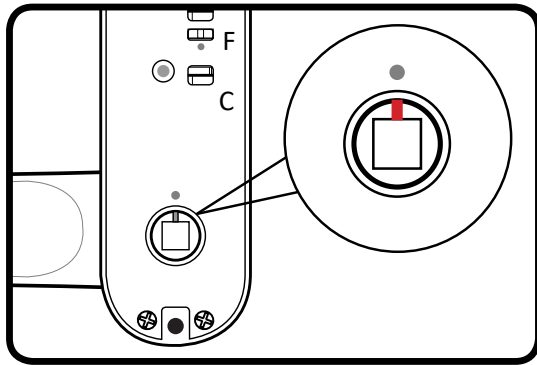


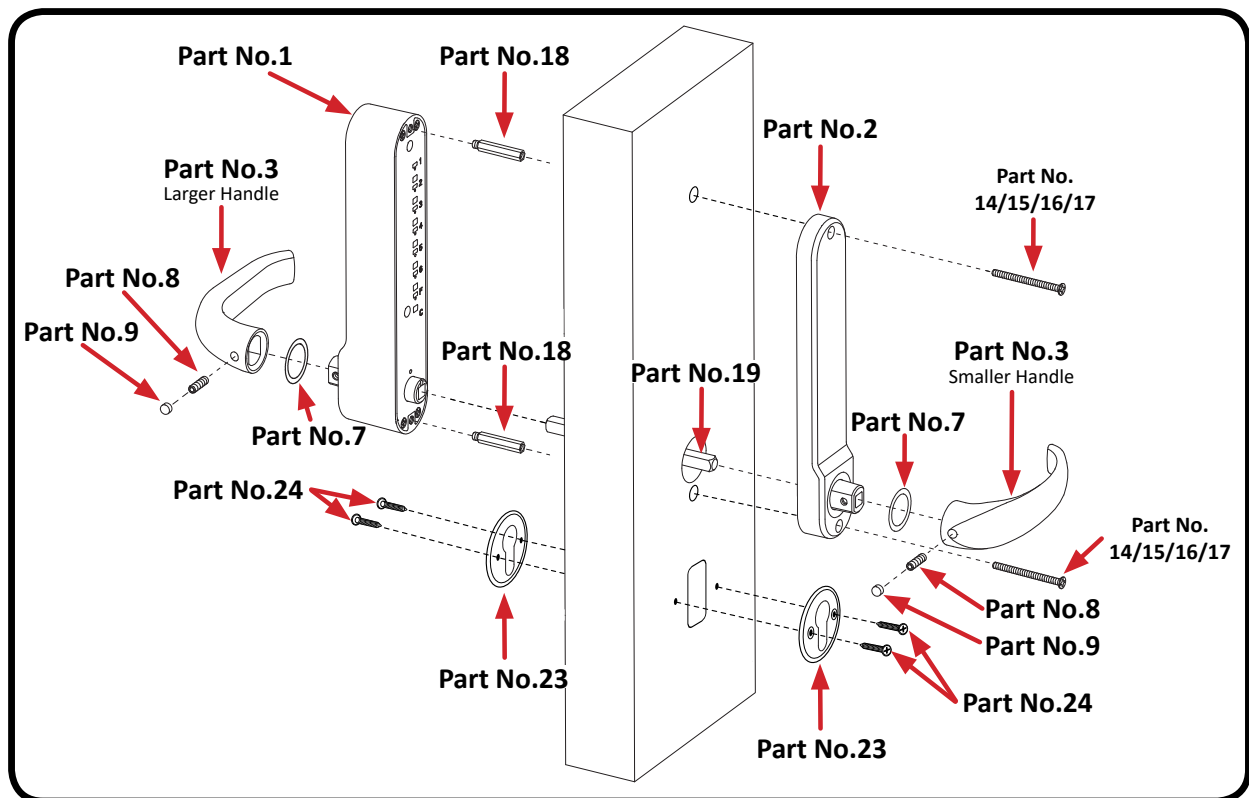
Fig.10

KEYPAD SPINDLE FOLLOWER POSITION

When placing the spindle (**Part No.19**) into the spindle follower on the back of the keypad, it is essential that the line on the spindle follower is aligned with the dot above and facing at the top/12 o'clock position as per **Fig.10**.

If the spindle follower is out of position when fitted, there will be no spindle drive even if the correct code is entered.

BL6000 ECP - INSTALLATION DIAGRAM

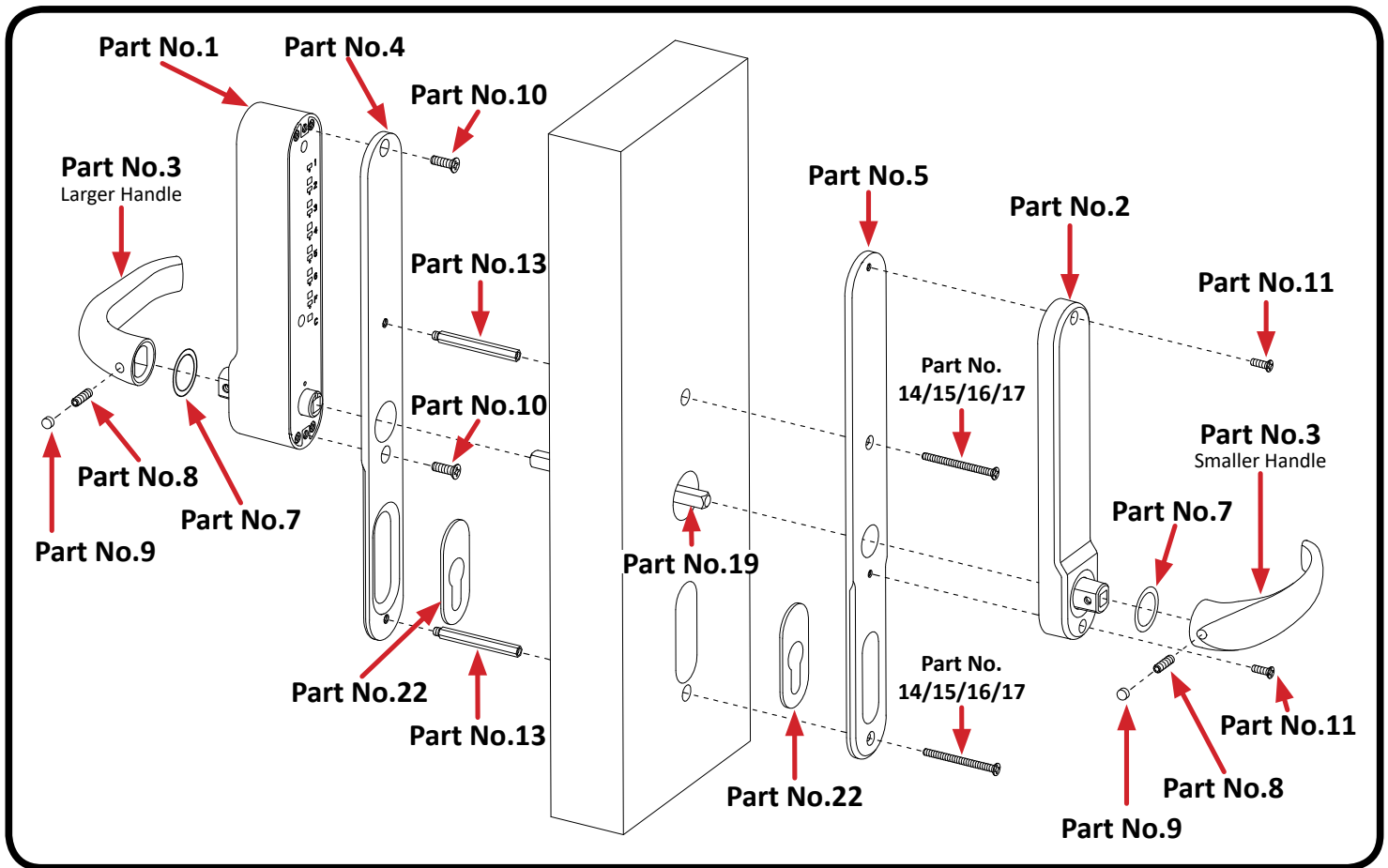


1. Offer the keypad with hexagon fixing posts fitted (**Part No.18**) to the holes drilled in the door.
2. Insert the spindle bar (**Part No.19**) into the spindle follower on the back of the keypad - ensure the spindle follower on the keypad is at the top/12 o'clock position as per **Fig.10** and the spindle is going in square and straight.
3. With the keypad in position, the inside handle can be offered up to the door and over the protruding spindle bar (**Part No.19**) and secured in position with the required length pair of machine screws (**Part No.14/15/16 or 17**).
4. With the door in the open position, enter the correct code into the keypad and rotate the handle in both directions - ensuring the locking device in the door is throwing and retracting. The code will need to be input for both directions.
5. With the door in the open position, turn the inside handle in both directions ensuring the locking device in the door is throwing and retracting.
6. With the keypad and inside handle fitted, the separate escutcheons (**Part No. 23**) can be fitted over each side of the Euro cylinder below (If used) and secured into position with escutcheon screws (**Part No.24**).

See above installation diagram for BL6000 ECP part numbers and fitment.

Installation

BL6100 ECP - INSTALLATION DIAGRAM



1. Offer the keypad with extension plate (**Part No.4**) with hexagon fixing posts (**Part No.13**) and integrated escutcheon (**Part No.22**) to the holes drilled in the door.
 2. Insert the spindle bar (**Part No.19**) into the spindle follower on the back of the keypad - ensure the spindle follower on the keypad is at the top/12 o'clock position as per **Fig.10 - Page 7** and the spindle is going in square and straight.
 3. With the keypad side in position, the inside extension plate (**Part No.5**) with integrated escutcheon (**Part No.22**) can be offered up to the inside of the door and over the protruding spindle bar (**Part No.19**). Secure in position with the required length pair of machine screws (**Part No.14/15/16 or 17**).
- Before fully tightening the machine screws (Part No.14/15/16 or 17) ensure that the spindle bar (Part No.19) is as central as possible of the spindle hole in the inside extension plate (Part No.5).**
4. The inside handle (**Part No.2**) with lever fitted can be placed over the protruding part of spindle (**Part No.19**) and secured onto the inside extension plate with the 2 x inside extension plate M4 retaining screws (**Part No.11**).
 5. With the door in the open position, enter the correct code into the keypad and rotate the handle in both directions - ensuring the locking device in the door is throwing and retracting. The code will need to be input for both directions.
 6. With the door in the open position, turn the inside handle in both directions ensuring the locking device in the door is throwing and retracting.

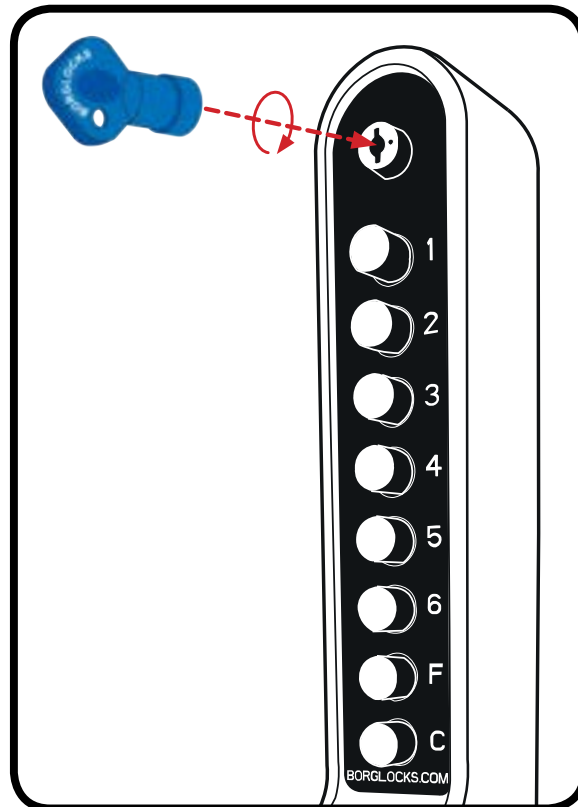
See above installation diagram for BL6100 ECP part numbers and fitment. If the unit is being fitted with a larger gearbox with no through hole for the top fixing - see instructions on bottom of page 5.

Code Change Instructions

The code should be changed with the door in the open position. To change the code you will need to know what the keypad is currently set to and have the code change tool.

The code can be changed with the unit fitted on/off the door. The unit is non sequential, therefore if the code is set to 12234, the keypad will open if entered 43221, 32214 etc..There are over 4000 different code combinations available.

1. Enter existing code
2. Using the code change key, insert over the  button in the top centre of the keypad. Rotate the code change key 90° right (clockwise) then press and hold the key (until step 5).



3. Press 'C' clear button to clear the existing code.
 4. Press the digits that are to be in the new code.
- Please note, if a mistake is made whilst entering a new code (with the  button rotated and pressed) the 'C' clear button can be pressed, which will cancel any buttons that have been pressed and you can start again.**
5. With the new code entered, the code change key can be removed by releasing the pressure and rotating 90° left (anti-clockwise) and removing the key from the  button.
 6. Press the 'C' button or turn the keypad handle to set the new code.
 7. The new code is now set and ready for use.
 8. Check that the code is working 5 times and that it is withdrawing the latchbolt in the door, before closing the door.

If a new code has been set and it does not work, the 'C' button has not been pressed when clearing the old code and before inputting the new code; therefore the code will be a combination of the new and old code i.e. if the old code was 1234 and the new code is 6789 the code actually set is 1234 6789. Input both the old and new codes and follow the code change from step 1.

If the code has been changed and the keypad lever is free turning and opening the door, the new code has not been set. Follow the code change instructions from step 2.

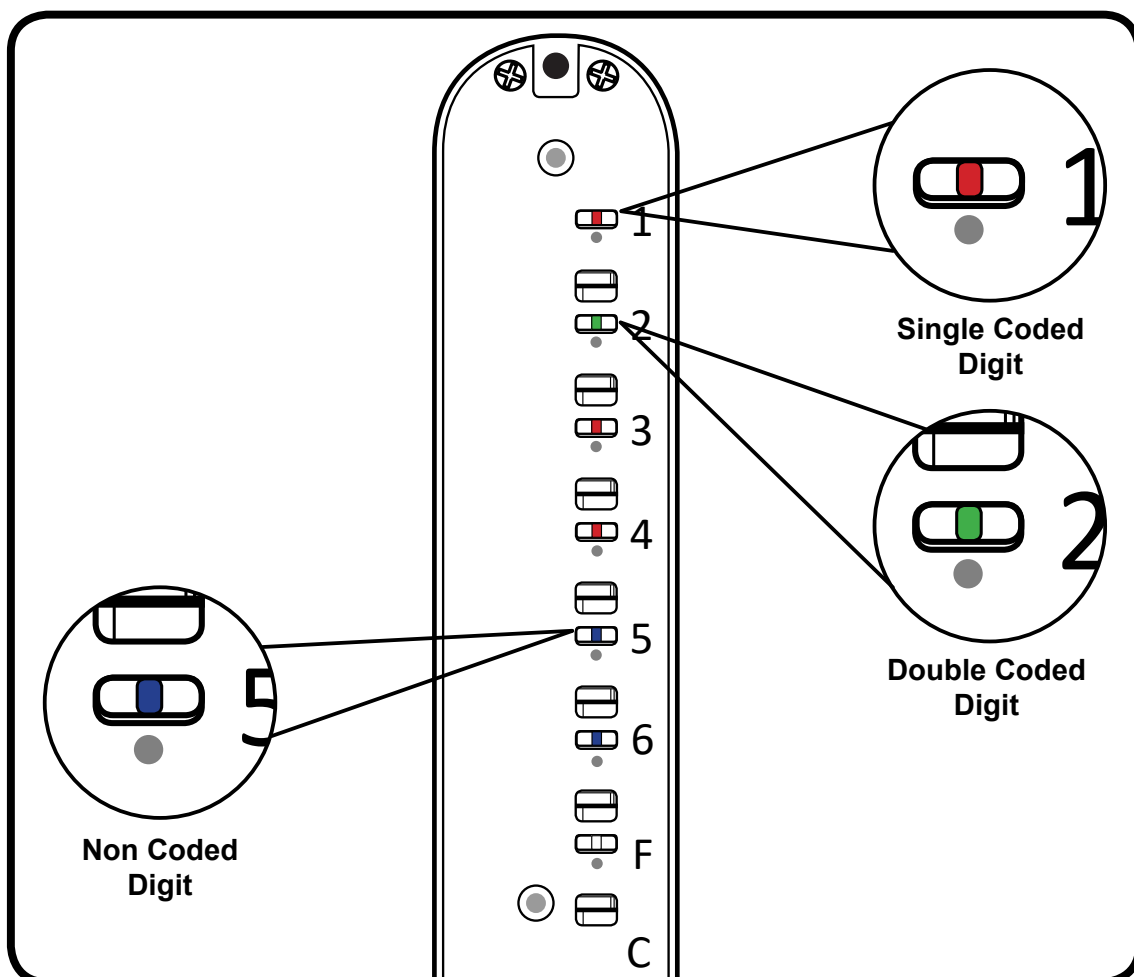
Identifying Lost Code

In the event that a code has been lost or forgotten, the unit will need to be removed from the door to identify the code. If you have the BL6100 ECP model with the extension plate, this plate will need to be removed to see the dials on the back of the keypad.

1. With the unit removed from the door, turn the keypad over and you will see that there is 6 portholes which correlate with the buttons on the keypad - through these holes you will see a series of blue, red and green lines.
2. Press the 'C' button to reset any buttons which may have been pressed.
3. To identify the code the keypad has been set to, you are looking for the red or green lines which are closest to the centre of the portholes. Red dials signifies a single digit press, green for a double button press and blue are digits not in the code. The 'F' free passage dial will be blank and does not makeup part of the code.
4. As per the example diagram below, you will see that the red lines on digits 1, 3, 4 and green for digit 2. These are closest to the centre of the porthole and is therefore the code of 1 2 2 3 4. All the other holes will show a blue line - these are not in the code.

Once all the coded buttons have been pressed all 6 portholes will have a blue lines in the centre.

5. There is no sequence to the code so as long as all the buttons in the code are pressed the handle will rotate and the spindle follower on the back of the keypad will rotate.
6. Once you have identified the correct code of the unit, make a note of the code before refitting the unit to the door. If required, the code can be changed with the unit on/off the door - see **page 9** for code change instructions.



Operating & General Use Maintenance Instructions

OPERATING THE KEYPAD WITH THE CODE - UNLOCK

When operating the keypad using the code, the 'C' button is to be pressed before entering the code. Pressing the 'C' button ensures that the coding chamber is clear of any buttons that may have accidentally been pressed.

1. Press the 'C' button to clear any pressed buttons.
2. Enter the correct code.
3. Rotate the keypad lever downwards and this will retract the latchbolt and the door can be pushed/pulled open.
4. The lever can be released and the keypad will reset and lever handle return to the horizontal position.

Please note: If the lock has been double locked via the euro cylinder - even with the correct combination the handle will only partially rotate and hit the stop within the lock mechanism and not fully retract. Do not force the keypad handle as this could damage the lock mechanism in the door or keypad.

OPERATING THE KEYPAD WITH THE CODE - LOCK

When the door is closed, the door will remain locked on the latch only. To double lock the door, follow the below with the door in the closed position.

1. Press the 'C' button to clear any pressed buttons.
2. Enter the correct code.
3. Rotate the keypad lever upwards and this will throw the multi-point locking mechanism and/or deadbolt.
4. The lever handle can be released, the keypad will reset and lever handle will return to its horizontal position. Using the euro cylinder below the key can be rotated to double lock.

Please note: When double locked via the euro cylinder - this will lock the keypad out from being used even with the correct combination.

OPERATING THE FREE PASSAGE MODE - KEYPAD SIDE

Free passage is a function which allows the keypad lever handle to freely turn and open the door without the need to enter the code each time a user passes through. This will work continuously until returned to the locked mode.

SETTING THE KEYPAD INTO FREE PASSAGE MODE

To operate the free passage function on the keypad, the correct code will need to be entered into the keypad, along with the 'F' button and then the keypad lever handle rotated. The keypad lever handle will now be free turning and retracting the latch and all buttons will be semi-solid with the exception of the 'F' and 'C'.

RETURNING THE KEYPAD TO THE LOCKED MODE

To take the keypad out of the free passage mode, press the 'F' button (audible click will be heard) and then press the 'C' button. This will return the keypad to its locked state.

Please note when returned to the locked mode - whilst the keypad handle will freely turn, the latch will not retract until the correct code is entered.

If the free passage mode is not required - please see 'DEACTIVATING THE FREE PASSAGE FUNCTION' on page 3.

OPERATING THE INSIDE HANDLE - LOCK & UNLOCK

1. Rotate the inside handle lever downwards to retract the latchbolt, deadbolt and/or multi-point locking mechanism.
2. Rotate the inside handle upwards to throw the deadbolt and/or multi-point locking mechanism.

Please note: When double locked via the euro cylinder - the inside handle may not retract and will require the euro cylinder to be unlocked via the key. This may differ depending on the multi-point lock brand fitted.

Problem Solving Guide

Installation Problems

Problem	Causes	Solution
The keypad handle freely turns and opens the door and buttons 1-6 are all solid.	The unit is in a free passage mode.	Press the 'F' button followed by the 'C' button, this will allow the unit to returned to its locked state. See 'operating the free passage mode' on page 11.
The keypad handle freely turns and opens the door without a code.	The code has been changed incorrectly and the keypad has no code set.	See 'code change instructions' page 9 and follow from step 2.
Both the keypad handle with the correct code input and inside handles are stiff to turn.	The spindle may be too long for the thickness of door.	Remove the unit from the door and cut spindle to the correct length - See 'cutting spindle bar' on page 6.
The keypad lever rotates after entering the correct code, clearing the code but is not opening the door.	The spindle may have been cut too short for the thickness of door or the inside handle spindle follower spindle spring has not been fitted and the spindle has moved out of position	See 'cutting spindle bar' on page 6 and check the overall length. See fitting the inside handle spindle follower spindle spring on page 6.

After Installation Problems

Problem	Causes	Solution
The keypad lever does not return to its reset position after turning.	The lever handle return spring may be broken or damaged. The spindle is too long for the thickness of door.	Call the Borg Locks helpline for support on how to proceed. Remove the unit from the door and cut spindle to the correct length - See 'cutting spindle bar' on page 6.
The keypad handle freely turns and opens the door and buttons 1-6 are all solid.	The unit is in a free passage mode.	Press the 'F' button followed by the 'C' button, this will allow the unit to returned to its locked state. See 'operating the free passage mode' on page 11.
The keypad is intermittently opening after entering the correct code and turning the handle.	If the unit has been fitted for a while and/or is not being used regularly, the keypad may need to be lubricated.	See 'Annual Maintenance' below.
The keypad or inside handle is excessively stiff when lifting to lock and throw the multi-point lock mechanism.	The door may have moved or swollen in the change of weather. The door may have slammed with the lock in the door in the thrown position.	Adjust the keeps and strike on the frame of the door to the correct position. There may be damage to the multi-point lock mechanism. Contact the multi-point lock manufacturer for advice on how to proceed.
The code has been changed and the new or old code does not work.	The code has been changed and most likely a combination of the old and new code together.	Press the 'C' button on the keypad and input the old combination, without pressing the 'C' button press the new combination. Turn the keypad handle and this may retract the latch. If the latch retracts - follow 'code change instructions' Page 9 with this old and new code combination.

Annual Maintenance

1. Remove the lock from the door.
2. Spray the inside of the lock with GT85 or other silicone based lubricant through the tumbler holes on the reverse of the keypad.
Remove any excess with soft cloth.
3. Spray all of the fixings and accessories with GT85 or other silicone based lubricant.
4. Push each of the buttons and rotate the lever several times to ensure that the lock is working smoothly and that all buttons return to their outward position.

Guarantee: If your lock should develop a fault within 1 year from date of purchase, due to inferior materials or workmanship the goods will be repaired or replaced free of charge.

Please call our helpline for spares, repairs and technical advice - **UK: 01708 225700 or International: +44 (0) 1708 225700**

Disclaimer: Under no circumstances should the lock be dismantled as this will invalidate our warranty. Each keypad is fitted with a tamper evident holographic warranty seal, if this seal is broken the warranty is void. The unit can still be repaired, but there may be associated costs.