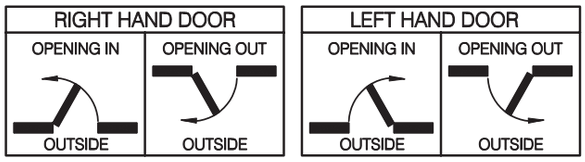
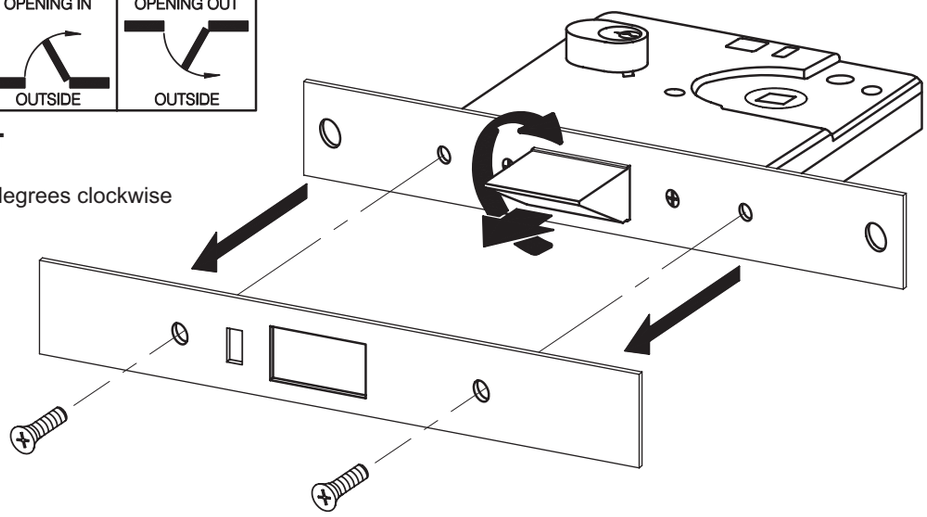
FEL990 Series Electric Mortice Lock
Installation Instructions

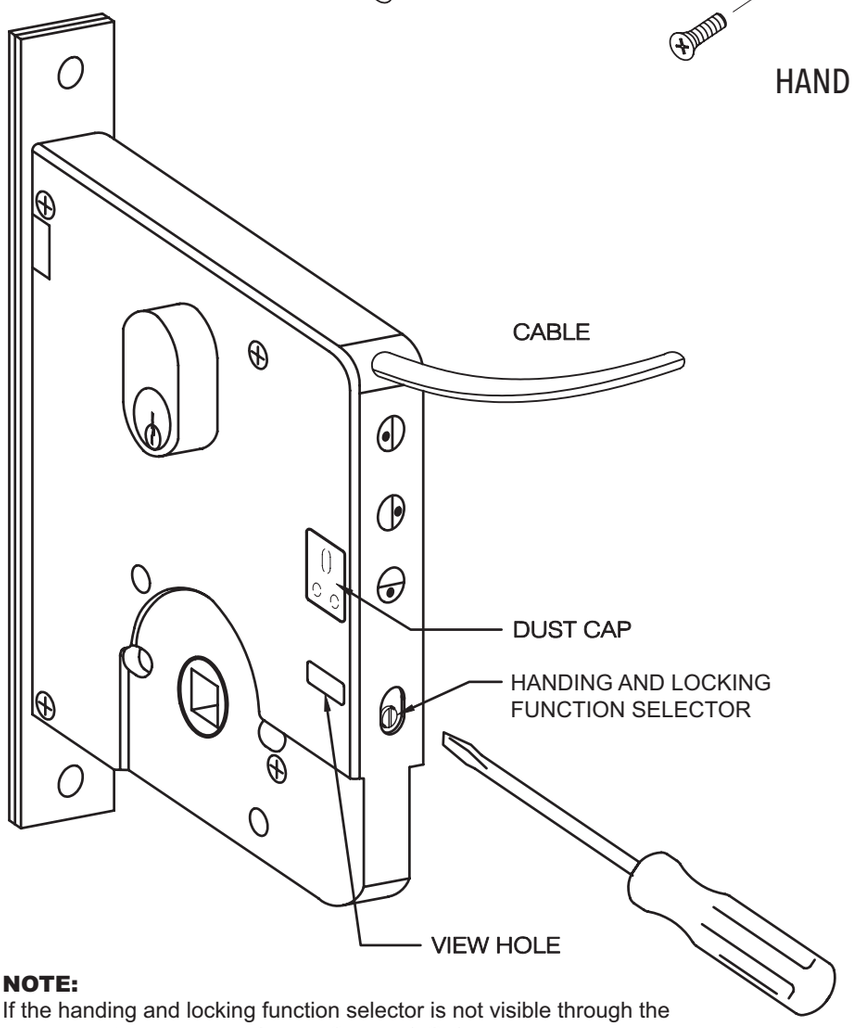
Electromechanical Locking



TO REVERSE LATCH BOLT

1. Remove outer Face Plate
2. Pull & Rotate Latch Bolt 180 degrees clockwise





NOTE:
If the handing and locking function selector is not visible through the view hole - the lock is set for Fail Secure (FSE). To make the handing and locking function selector visible, use the holdback clip - see overleaf for Fail Safe (FSA) Fail Secure (FSE) selection.

HANDING AND LOCKING FUNCTION SELECTION

For left hand VESTIBULE

Push in and turn clockwise

Set selector as shown

For right hand VESTIBULE

Push in and turn anti-clockwise

Set selector as shown

To set for COMBINATION

(Both handles lockable)

Set selector as shown

ALLEGION

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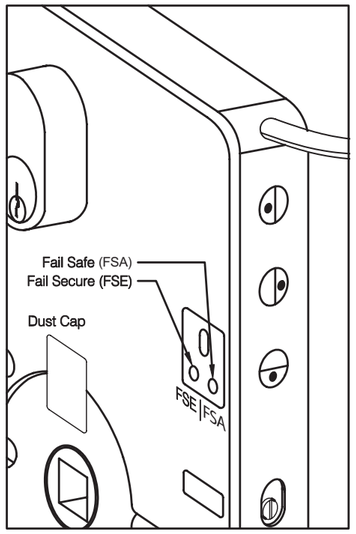
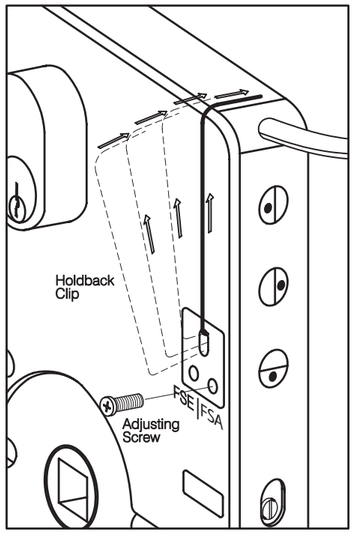
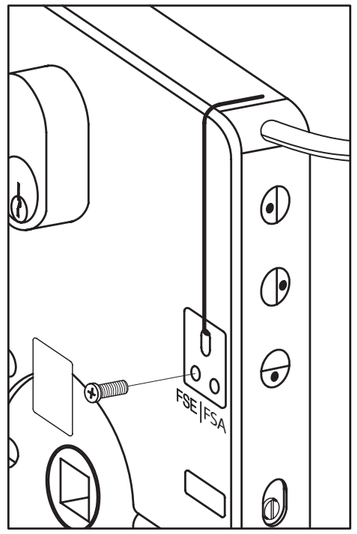
FAIL SAFE (FSA) / FAIL SECURE (FSE) SELECTION



Check that the Fail Safe (FSA) / Fail Secure (FSE) function is set to your requirements by first removing the dust cap. The correct FSA/ FSE function must be set before setting the vestibule / combination handing function - see detail.



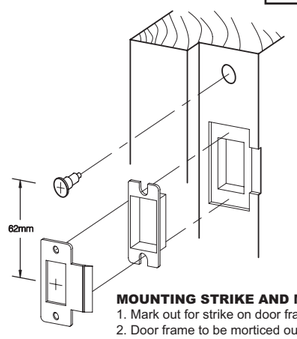
To adjust FSA to FSE, unscrew the adjusting screw and using the FSA / FSE handing holdback clip position the sharp right-angled wire into the lock cap holdback slot and gently pull back the FSA | FSE mechanism to the end of the slot and position the opposite (radius) end of the holdback clip over the lock case.



The FSE adjusting screw position is now exposed. Lightly nip the adjusting screw into its new FSE position. Adjust the vestibule / combination handing function to your requirements following the instructions on the back of the lock case - see detail. Unclip the FSA / FSE handing holdback clip and replace the dust cap.FSA / FSE - lock handing function adjustment is now complete.

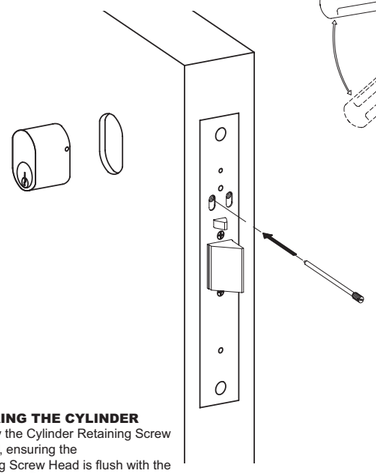
Reverse the sequence of operations to adjust FSE to FSA - lock handing adjustment.

WARNING - Do not use instruments such as screw drivers to retract the latch bolt through the cylinder hole. Damage to the lock circuitry could occur.



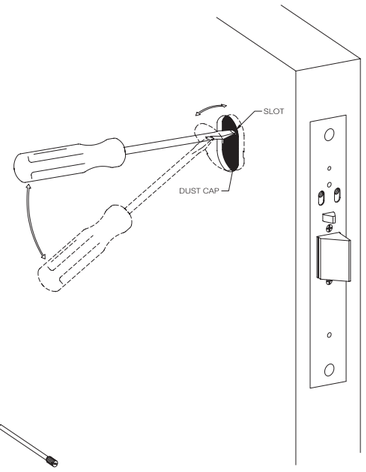
MOUNTING STRIKE AND MAGNET

1. Mark out for strike on door frame.
2. Door frame to be morticed out for strike and strike box.
3. Fix strike box and strike to door frame using 2 screws as supplied with the lock.
4. Drill 19mm DIA hole (depth to suit magnet), 62mm above centre line of strike. Magnet to be inserted into hole.



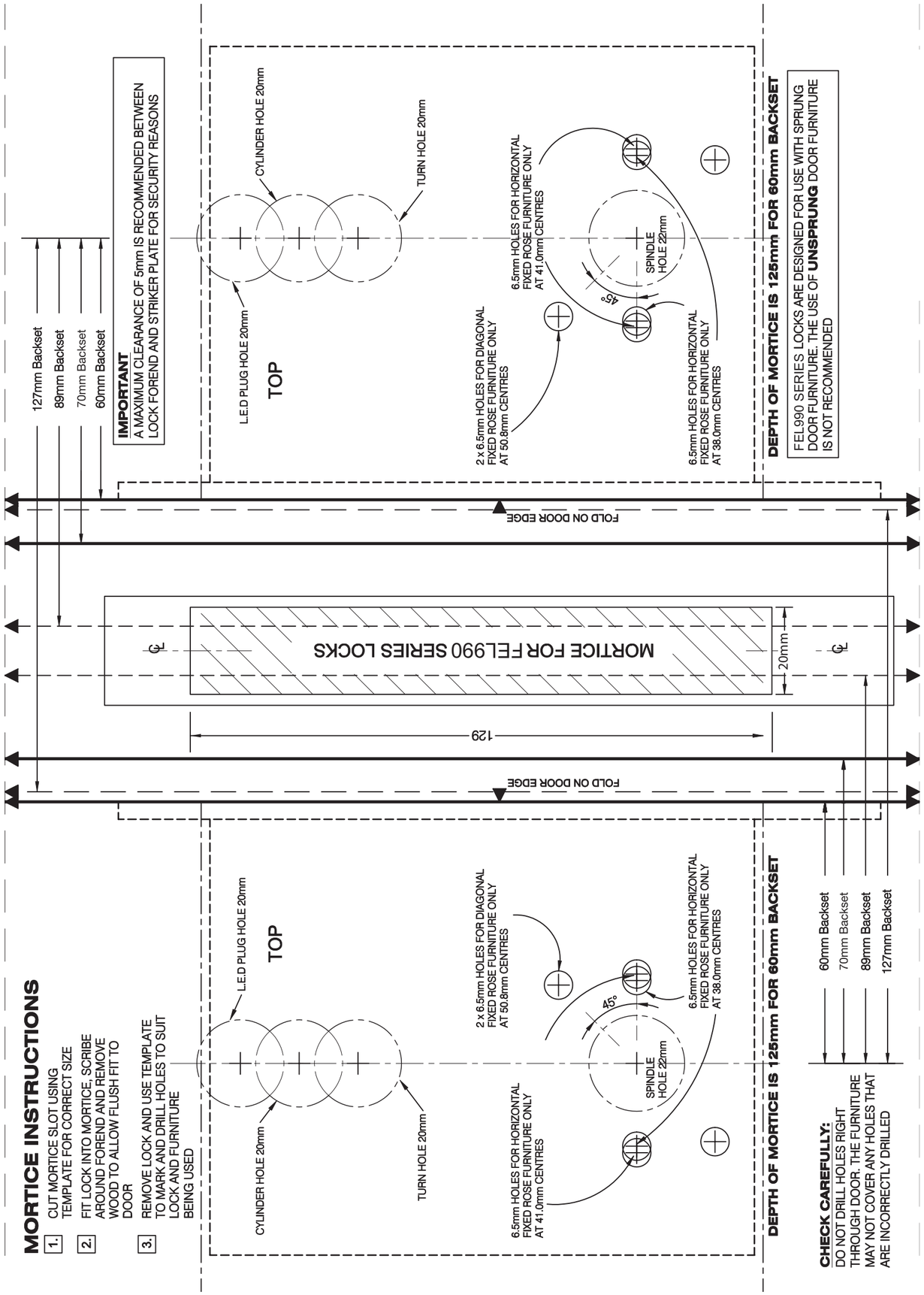
SECURING THE CYLINDER

Use only the Cylinder Retaining Screw supplied, ensuring the Retaining Screw Head is flush with the Inner Forend Face.



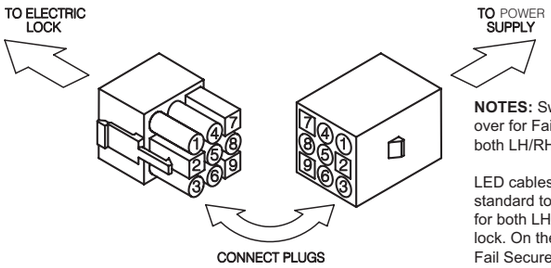
LOCK INSTALLATION

When installing the lock, leave the plastic cylinder dust covers covering the cylinder hole to prevent particles from entering the lock. Where a cylinder is required, extract the dust cover as shown in the illustration.



9PIN PLUG CONNECTION

(1.6m of cable supplied as standard)

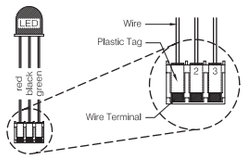


NOTES: Swaping LED wires over for Fail Secure (FSE) for both LH/RH sides of lock.

LED cables are supplied as standard to suit Fail Safe (FSA) for both LH/RH sides of the lock. On the occasion where Fail Secure is selected the red and green wires on the LED cable will have to be swapped over to suit LH/RH sides of the lock.

LOCK INSTALLATION

(swapping LED wires)



SWAPPING WIRES
Gently lift plastic tag holding terminal & slide wire terminal from plug. To insert wire terminal, slide back into plug.

FAIL SAFE (FSA) SELECTION

FAIL SECURE (FSE) SELECTION

FEL990 Series Monitoring Functions

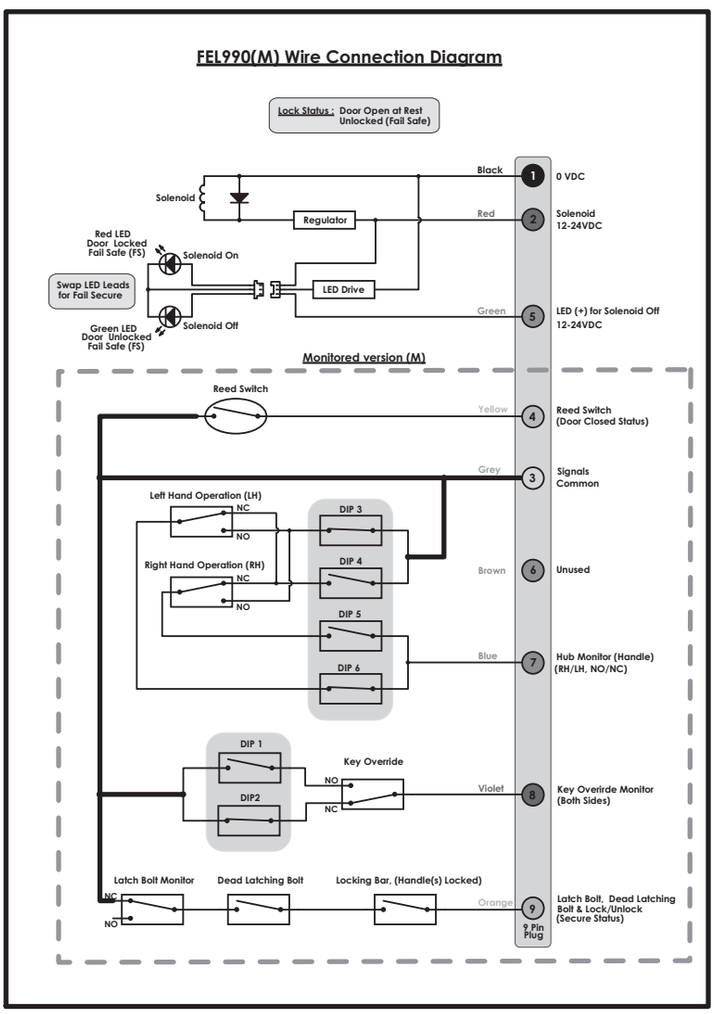
Door Position Monitoring by Reed Switch

Lock Status Monitoring by a combination of 3 locking perimeters
- Locking Bar (Hub/Handle/s locked)
- Deadlatching Bolt (suppressed)
- Latchbolt (out)

Dual Key Override Monitoring (KOM)

Request to Exit (REX) via Hub/Handle(s)

LED Indication



Electrical Specifications

Solenoid Activation
12-24V DC 350mA momentary, 100mA max operating
Including LED if applicable

Lock Secure Status/Key Override Monitor
Microswitch max. rating 500mA @30V DC

Door Status Monitor
Magnetic Reed Switch 100mA operating

Plug arrangement
9 pin plug with 1.6m cable

Request to Exit (REX) Switches
Microswitches max. rating 1A @125VAC

PIN Connection Table

Pin	Colour	Function
Monitored/Unmonitored versions		
1	Black	0V (Negative)
2	Red	Solenoid 12-24V DC
5	Green	LED (+) for Solenoid off 12-24VDC
Additional for Monitored (M) versions		
3	Grey	Signals (Common)
4	Yellow	Reed Switch
6	Brown	Unused
7	Blue	Hub Monitor(Handle) (RH/LH, NO/NC)
8	Orange	Dead latch/Lock/Unlock
9	Violet	Key Override Monitor

DIP Switch Settings

	Switch No.					
HUBS*	1	2	3	4	5	6
LH NC	-	-	OFF	ON	OFF	ON
LH NO	-	-	ON	OFF	OFF	ON
RH NC	-	-	OFF	ON	ON	OFF
RH NO	-	-	ON	OFF	ON	OFF
KOM NC	OFF	ON	-	-	-	-
KOM NO	ON	OFF	-	-	-	-

*Hub monitoring is exit side only

This product is the subject of any one or more of the following patents, NZ299577, AU717917, NZ529951, NZ535262, NZ534706, NZ534938, NZ537284, NZ534626.

ALLEGION

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