


SQUIRE[®]

Rim Combi[™]

Electronic Access Control



Fitting Instructions



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Lock makers since 1780

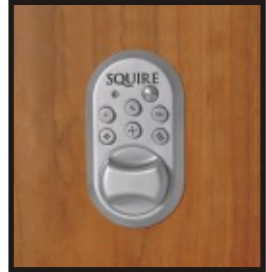
Installation Guide



Rim Lock



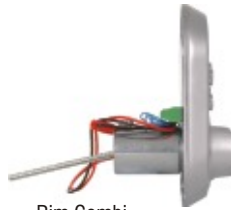
Door without lock cylinder



Rim Combi



Rim Cylinder



Rim Combi

General Information

- The Rim Combi is designed for a simple retrofit to a key operated Rim Lock to enable multi-user keyless access control.
- It can be used in conjunction with a variety of rim lock cases with 21mm fixing centres.
- Some Rim Lock cases have a deadlocking function normally enabled by a full reverse turn of the key. **THIS FUNCTION WILL NOT OPERATE WITH THE RIM COMBI.**
- It is suitable for doors 30-60mm thickness.
- The Rim Combi may be fitted as a first fit with a suitable rim lock case. The appropriate procedures for fitting the lock case will need to be followed together with the Rim Combi fitting instructions.



Rim Combi (back)



Rim Combi (Front)

Getting Started

(Read and understand all notes before proceeding)

1. Decide where you wish to mount the battery housing, either:
 - a) Directly above or directly below the lock casing - or
 - b) Mortised into the edge of the door. (If 1b then go to notes 5, 12, 13, 14, 15)

It is slightly easier to fit the batteries above the lock casing. The following notes refer to this option.

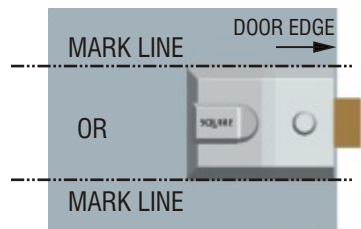


Step 1a. Battery pack above lock casing



Step 1b. Battery pack mortised into side of door

- c) Draw a horizontal line on the door to mark the chosen position at the top or bottom of the lock casing.



Step 1c. Mark a horizontal line

Instructions for fitting - when battery pack is to be fitted above the lock casing

2. Remove the lock casing and mark the top dead centre (TDC) of the cylinder aperture where it bisects the horizontal line drawn in step 1c from 1. above
3. Remove the cylinder and back plate
4. Using a small chisel form a cut out 4mm wide and 2mm deep from the cylinder aperture to 5mm above the TDC mark. See diagram.

This cut out is to accommodate the two battery wires



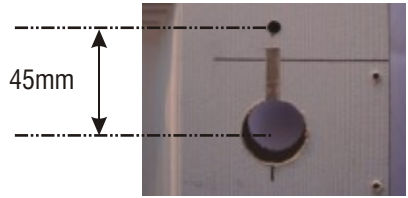
Step 2. Marking TDC



Step 4. Chiselling cut out for battery wires

5. Mark the position for the third fixing screw and drill through the door with a 6mm diameter drill.

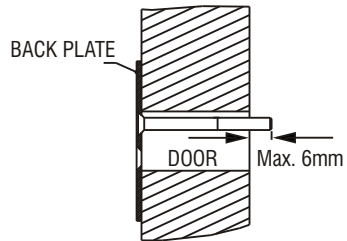
N.B. This fixing is optional and will be hidden by the battery box if the 'above' lock casing fitting is chosen for the battery box.



Step 5. Picture shows third fixing hole

6. If required cut the three M5 fixing bolts so that they will engage with the Rim Combi by 5-6mm.

N.B. The bolt length is back plate thickness + door thickness + 5-6mm. (WARNING! do not exceed)



Step 6. Picture shows fixing protruding through back of door by 5-6mm

7. Insert the Rim Combi from the front of the door and push the wires through the door and behind the back plate. Screw the back plate to the Rim Combi through the door ensuring no wires are trapped



Step 7. Shows Rim Combi -with tails protruding through hole and battery wires aligned into the grooves.

9. Draw a horizontal line 40mm above the lock casing. Position the inner battery casing plate so that the fixing holes are on the line, mark their position and fix the plate in position with the 2 screws provided



Step 9. Shows the battery pack inner casing plate being aligned to its position

- 10.** Connect the batteries to the battery pack (observing correct polarity) and the battery pack to the Rim Combi power lead. Using the self adhesive pads fix the battery pack into the inner battery casing. The Rim Combi will display a green light, followed by a red light. If there is no green/red light showing check all connections and battery polarity. Fix the battery pack onto the inner battery casing.



Step 10. Picture shows adhesive pads in inner battery casing

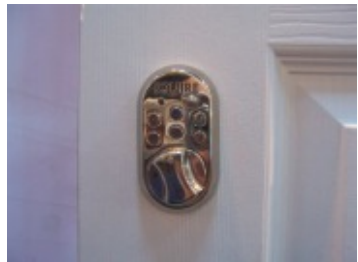


Step 10. Picture shows battery pack installed into the battery casing

- 11.** Making sure no leads are trapped fit the outer battery housing using the two M3 screws provided. The Rim Combi is now ready for testing and configuration. Finally screw the rim lock case into position.



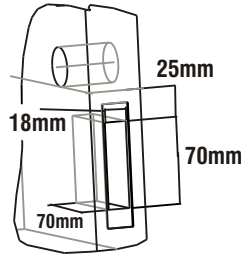
Step 11. Picture shows cover in place over battery pack



Step 11. Picture shows Rim Lock fitted

Instructions for mortice fitting the battery box

12. Mark the position to make the battery pack aperture in the edge of the door 25mm below the lower edge of the rim lock hole. Carefully mark the opening for the battery pack to the dimensions shown. Drill and chisel out battery aperture.



Step 12 **Step 12** Shows drilling the door out to create the mortice aperture

13. Using the battery 'pack keep plate' as a template over the mortice aperture, mark the edge of the keep to allow a 1.5mm recess to mount the keep plate flush. Chisel the recess.



Step 13 Shows the mortice aperture after chiselling

14. Using a 13mm diameter drill make an angled path from the battery pack aperture into the rim lock opening. This is the path for the battery pack power lead.



Step 14. Drill the angled path for the battery leads

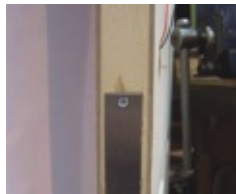


Step 15. The leads protruding through the old cylinder hole

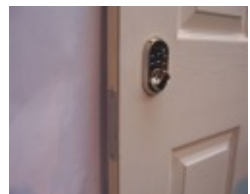
15. Insert the Rim Combi from the front of the door pushing the power lead down through the angled path into the battery pack aperture. Connect the power lead to the battery pack. The Rim Combi will display a green light, followed by a red light. If there is no green/red light showing check all connections and battery polarity.

Insert battery pack into the mortise aperture

Fix the Rim Combi to the back plate (noting the bolt lengths at note 6) and the rim lock. Fix the keep plate in position. The Rim Combi is now ready for testing and configuration.



Step 15. Picture shows the battery keep plate in place



Step 15. Picture shows Rim Combi and battery in place

Operating Instructions

The Rim-Combi is designed to be as easy as possible to programme and operate. All Functions and User codes are six digits long. Rim-Combi can store up to 50 different User codes. Any combination of 6 digits can be used; a number can be used more than once in the same code. There are over 46,000 possible codes.

The Rim-Combi is supplied to you with an Access code of 123456 and a Master code of 666666

To change any of the operating parameters the Master code is entered first, followed immediately by the appropriate Function code, then if required, immediately a further 6 digit code. The dual coloured visual indicator will light green if all is OK and red if you have made an error, taken too long to enter a code, attempted to add a code which already exists or the memory is full.

The Six Function Codes:

TO ADD A NEW ACCESS CODE

Master Code (666666) followed by 111111 followed by new 6 digit code to be enabled.

TO DELETE AN ACCESS CODE

Master Code (666666) followed by 222222 followed by 6 digit code to be removed.

TO DELETE ALL ACCESS CODES

Master Code (666666) followed by 333333

TO CHANGE THE MASTER CODE

Master Code (666666) followed by 444444 followed by the new 6 digit Master Code

TO CHANGE THE ENTRY TIME

Master Code (666666) followed by 555555 followed by the number of seconds required to gain entry e.g. 4 seconds is 444444, 3 seconds is 333333 maximum time is 6 seconds.

TO ENABLE OR DISABLE ALL ACCESS CODES

Master Code (666666) followed by 666666

THERE IS NO RESET FACILITY IF YOU LOSE THE MASTER CODE!
We do not recommend that you attempt to change the Master Code until you are familiar with the operation of the system, however for security it is important that the default Master Code (666666) is changed and the default Access Code (123456) removed as soon as possible. **YOU ARE STRONGLY ADVISED NOT TO MAKE CHANGES UNLESS THE DOOR IS OPEN.**

The internal software ensures that you cannot add the same user code twice or add a user code that is the same as the master code, when entered a red light will follow.

If an incorrect user code is entered, the system times out for a few seconds. This is an anti-tamper feature. Entering an incorrect user code will produce a red light. You must wait until you see a green light before entering the correct user code. You have a maximum of 3 seconds between button presses.

When you first start to enter any sequence of numbers, you will see a green light when the first button is pressed. This confirms that batteries are charged. A red light means the batteries are low and should be replaced as soon as possible. Please refer to emergency entry procedure if required.

Once you are confident in using the Rim-Combi we suggest you purge the system to remove all access codes then change the Master Code taking special care when changing and make sure you make a note of it. Then add any User Codes required (up to a maximum of 50) For security avoid 'obvious' or 'simple' User or Master Codes. Finally set the 'on time'. Note the longer the 'on time' the shorter the battery life. Note: Typical battery life is about 10-15,000 operations.

After use check to ensure the turn knob has fully disengaged by rotating the turn knob in the opposite direction.

Emergency Power Circuit

The emergency entry facility is not a 'back door' into the system. Here are the scenarios in which the procedure should be used. The first is when the user gets a red indicator when pressing any of the buttons and the system fails to operate. This means that the batteries are low and should have been replaced. The second is where the indicator shows no light at all which means the batteries are totally dead. The third is where the user has chosen to fit the Rim-Combi without internal batteries. The latter could be used on a remote installation for example. The low power indicator is based upon voltage. It is possible for batteries to have plenty of voltage but little current available. This is rare and usually only occurs with inferior quality batteries. Please use good quality alkaline batteries for optimum performance.

The Emergency Entry Procedure is as follows:

Using a fully charged PP3 9 volt alkaline battery, place the positive terminal on the emergency power terminal of the Rim Combi. The negative terminal of the battery must be touching the body of the Rim Combi.



The LED will now light Green then Red. Enter your code and turn the knob to open.

Replace the internal batteries and check the operation of the system before closing the door.

