

Anleitung für Montage und Betrieb

Funk-Fingerleser FFL12

Fitting and Operating Instructions

Radio Finger-Scan FFL12

Instructions de montage et d'utilisation

Lecteur digital sans fil FFL12

Handleiding voor montage en bediening

Draadloze vingerscanner FFL12

Instrucciones de montaje y funcionamiento

Lector dactilar por radiofrecuencia FFL12


Istruzioni per il montaggio e l'uso

Lettole di impronte digitali radio FFL12

Instruções de montagem e funcionamento

Leitor de impressão digital por radiofrequência FFL12

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1 About These Instructions

Read through all of the instructions carefully, as they contain important information about the product. Pay attention to and follow the instructions provided, particularly the safety instructions and warnings.

Please keep these instructions in a safe place and make sure that they are available to all users at all times.

1.1 Intended use

The radio finger-scan FFL12 is a transmitter that is used to send a specific radio code to open and close garage doors or entrance gates. Sending this radio code is enabled after one or more previously learned fingerprint has been identified by the system.

Other applications are not permitted. The manufacturer is not liable for damages caused by improper use or incorrect operation.

1.2 Warnings used

ATTENTION	Indicates a danger that can lead to damage or destruction of the product .
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1.3 Symbols used



See illustrated section



See text section

2 Basic Safety Instructions

ATTENTION

Damage caused by sharp items or metal objects

Damage to the surface of the finger sensor may lead to malfunctions.

- ▶ Do not pull sharp items or metal objects, e.g. rings, over the finger sensor.

3 Scope of Delivery

- Radio finger-scan FFL12
- 4x battery, type: AAA (LR03)
- Fitting material
- Fitting and operating instructions

4 Definitions

User fingers (B1 - B12)

The learned fingerprints with authorisation to open the garage door or entrance gate.

Enrol mode

Operating mode in which a fingerprint is learned.

Finger sensor

The sensor element is used to learn the fingerprint and recognise the authorisation to open the garage door.

Radio code

A unique fixed code preprogrammed at the factory that can be sent to open the garage door.

Radio code location

A radio code location is a space for storing a radio code, that can be sent and recoded. A total of 2 radio code locations are available in the device.

Identification mode

Operating mode in which the fingerprint on the finger sensor is compared to the learned finger prints.

Master fingers (M1/M2)

The first two successfully learned fingerprints are the so-called master fingers. Further finger prints (user fingers) can only be learned using the master fingers.

Timeout

A 15 second time span during which a user action is expected to take place (e.g. pressing a button or pulling a finger over the sensor). The radio finger-scan will switch itself off if this period elapses without an action taking place.

5 Fitting

▶ See **Figure 1**

NOTE:

Before fitting the radio finger-scan, check whether the radio signal can be received by the receivers in the chosen fitting area. Direct fitting on metal will affect the range. In this case, fit the finger-scan at a distance of 2-3 cm.

6 Display and control elements

6.1 Display elements

LEDs are used to display the status of the device and for operator guidance.

- | | |
|---------------------------|---|
| Red LED
(RD) | <ul style="list-style-type: none">• Delivery condition (illuminated)• Negative acknowledgement (briefly flashes 3 times)• Ready to learn the second master finger (illuminated)• Battery warning |
| Blue LED
(BU) | <ul style="list-style-type: none">• Delivery condition (illuminated)• Enrol mode for the master finger (flashes slowly)• Enrol mode for the user finger (flashes quickly)• <i>First</i> radio code location (flashes slowly)• <i>Second</i> radio code location (flashes slowly in pairs) |
| Green LED
(GN) | <ul style="list-style-type: none">• Delivery condition (illuminated)• Positive acknowledgement (one long flash)• Identification mode (illuminated)• Radio code transmission (flashes quickly) |

6.2 Control elements

- | | |
|-------------------------------------|---|
| PRG button | <ul style="list-style-type: none">• Initiation of programming functions• Deleting the user fingers• Reset |
| ON button | <ul style="list-style-type: none">• Device activation• Resend a radio code |
| KEY button
(on the rear) | <ul style="list-style-type: none">• Reset |

7 Putting into Service

► See Figure 2

The radio finger-scan is ready for operation immediately after the batteries have been inserted.

To properly learn a fingerprint, the same finger must successfully be pulled over the sensor three times.

NOTE:

To learn a fingerprint, the finger must be pulled over the sensor in the correct position and with increased pressure (see **Figure 3**).

The first two learned fingerprints are the master fingers. Further finger prints (user fingers) can only be learned using the master fingers.

NOTE:

After identification, the radio finger-scan will only send the radio code to open and close a garage door or entrance gate if both master fingers have been learned beforehand.

7.1 Assignment of a fingerprint to a radio code location

The radio finger-scan has two radio codes preprogrammed at the factory. Before learning a fingerprint, you can select the *first* radio code location or the *second* radio code location using the PRG button. The learned fingerprint will then send the stored radio code.

7.2 Learning the master fingers

► See Figure 4

7.2.1 Learning the first master finger (M1)

1. Push the cover up to the *second* notch or press the ON button to activate the device.
All LEDs will be illuminated and indicate the delivery condition.
2. Press the PRG button for at least
 - a. 5 seconds (selection of the *first* radio code location). The red and green LEDs will go out and the blue LED slowly flashes for the duration of the learning process.
 - b. 10 seconds (selection of the *second* radio code location). The red and green LEDs will go out and the blue LED slowly flashes in pairs for the duration of the learning process.

3. Pull the first master finger over the finger sensor.
The green LED will slowly flash once as a positive acknowledgement.
4. Pull the same finger over the finger sensor again.
The green LED will slowly flash once as a positive acknowledgement.
5. Pull the same finger over the finger sensor again.
The blue LED will go out and the green LED is illuminated.
6. After 2 seconds, the red LED will also be illuminated, signalling that the second master finger must be learned.

If the red LED flashes three times as a negative acknowledgement during step 3, repeat the step until you receive a positive acknowledgement.

If the timeout elapses during the learning process, the radio finger-scan will switch itself off and you must begin again with step 1.

NOTE:

In order to ensure operational reliability, we recommend using a fingerprint from a different person to learn the second master finger. If both of the learned master fingers are from the same person, we recommend learning a fingerprint from each hand.

7.2.2 Learning the second master finger (M2)

1. Push the cover up to the *second* notch or press the ON button to activate the device.
The red and green LEDs are illuminated.
2. Press the PRG button for at least
 - a. 5 seconds (selection of the *first* radio code location). The red and green LEDs will go out and the blue LED slowly flashes for the duration of the learning process.
 - b. 10 seconds (selection of the *second* radio code location). The red and green LEDs will go out and the blue LED slowly flashes in pairs for the duration of the learning process.
3. Pull the second master finger over the finger sensor.
The green LED will slowly flash once as a positive acknowledgement.
4. Pull the same finger over the finger sensor again.
The green LED will slowly flash once as a positive acknowledgement.
5. Pull the same finger over the finger sensor again.
The blue LED will go out and the green LED is illuminated.
6. If the green LED is illuminated after step 3, two master fingers have been learned and the device is now in identification mode.

7.3 Learning the user fingers (B1 - B12)

► See **Figure 5**

1. Push the cover up to the *second* notch or press the ON button to activate the device.
The green LED is illuminated and indicates the identification mode.
2. Press the PRG button for at least
 - a. 5 seconds (selection of the first radio code location). The red and green LEDs will go out and the blue LED slowly flashes for the duration of the learning process.
 - b. 10 seconds (selection of the second radio code location). The red and green LEDs will go out and the blue LED slowly flashes in pairs for the duration of the learning process.
3. Pull a master finger over the finger sensor.
The green LED will slowly flash once as a positive acknowledgement.
The blue LED flashes quickly and indicates that the system is ready to learn a user finger.
4. Pull a user finger over the finger sensor.
The green LED slowly flashes once as a positive acknowledgement; the blue LED flashes quickly.
5. Pull the same finger over the finger sensor again.
The green LED slowly flashes once as a positive acknowledgement; the blue LED flashes quickly.
6. Pull the same finger over the finger sensor again.
The blue LED goes out; the green LED is illuminated and indicates the identification mode.

If the red LED flashes three times as a negative acknowledgement during steps 3-5, repeat the step until you receive a positive acknowledgement.

If the timeout elapses during the learning process, the radio finger-scan will switch itself off and you must begin again with step 1.

A maximum of 12 different user fingers can be learned. If a further user finger is learned, the first one will be overwritten without prior warning. There is no warning or error message if an already learned user finger is learned again. The fingerprint will be recognised as an existing one and does not take up a second memory location.

7.4 Learning the radio finger-scan on the receiver

1. Push the cover up to the *first* notch or press the ON button to activate the device.
The green LED is illuminated and indicates the identification mode.
2. Prepare the receiver (e.g. garage door operator) for learning in accordance with the operating instructions.
3. Pull a finger with a learned fingerprint over the finger sensor.
The green LED will flash quickly as a positive acknowledgement and the radio code that belongs to this fingerprint is sent. Afterwards, the green LED is illuminated.
4. If necessary, press the ON button to extend the transmission time until the receiver has recognised the radio finger-scan.

8 Operation

NOTE:

868 MHz: When used at the same time, GSM 900 mobile phones can affect the range of the radio remote control.

1. Push the cover up to the *first* notch or press the ON button to activate the device.
The green LED is illuminated and indicates the identification mode.
2. Pull a finger with a learned fingerprint over the finger sensor.
The green LED will flash quickly as a positive acknowledgement and the radio code that belongs to this fingerprint is sent. Afterwards, the green LED is illuminated.

The ON button can be used to transmit again within 15 seconds. As long as the ON button is pressed, the radio code is transmitted, but for a maximum of 30 seconds. The green LED will flash very quickly during transmission.

If the timeout elapses during operation, the radio finger-scan will switch itself off and you must begin again with step 1.

NOTE:

If a finger with an unlearned fingerprint is pulled over the finger sensor, the green LED will go out and the red LED briefly flashes three times as a negative acknowledgement. Afterwards, the green LED is illuminated again.

9 Deleting the User Fingers

► See **Figure 6**

It is not possible to delete individual fingerprints. If the user fingers are deleted, only the master fingers and radio code will be retained.

1. Push the cover up to the *second* notch or press the ON button to activate the device.
The green LED is illuminated and indicates the identification mode.
2. Press the PRG button for at least 5 seconds.
The green LED will go out and the blue LED flashes slowly.
3. Pull a master finger over the finger sensor.
The green LED will slowly flash once as a positive acknowledgement.
The blue LED flashes quickly and indicates that the system is ready to learn a user finger.
4. Press the PRG button again for 15 seconds.
The blue LED will go out and after 5 seconds the blue LED flashes slowly; after a further 10 seconds it flashes faster for a period of 5 seconds.
Afterwards, the green LED is illuminated.

All user fingers have been deleted.

10 Overview of LED Displays

Red LED	Blue LED	Green LED	Operating condition
Illuminated	Illuminated	Illuminated	Delivery condition; ▶ Learn the first master finger.
Illuminated		Illuminated	The first master finger has been learned. ▶ Learn the second master finger,
		Illuminated	Identification mode
Quickly flashes 3 times			Negative acknowledgement
Flashes for 5 seconds			Low battery voltage, ▶ Change the batteries soon.
Flashes quickly for 5 seconds and then the device switches itself off.			Batteries are empty. ▶ Exchange the batteries.
Flashes slowly and then quickly after 5 seconds	Flashes slowly and then quickly after 5 seconds		Device reset
	Flashes slowly		1. Enrol mode for the master finger. 2. Identification mode when learning the user fingers. 3. <i>First</i> radio code location
	Flashes slowly 2 times		1. Enrol mode for the master finger. 2. <i>Second</i> radio code location
	Flashes quickly		Enrol mode for the user finger
		One long flash	Positive acknowledgement
		Flashes very quickly	The radio code that belongs to this fingerprint is sent.

11 Reset

► See **Figure 7**

The rear of the device must be accessible in order to reset the device. During a device reset, all of the stored master and user fingers will be deleted and new radio codes generated.

1. Remove the cover and disassemble the top of the device so that the KEY button on the rear is accessible.
2. Press the ON button to activate the device.
The green LED is illuminated and indicates the identification mode.
3. Press and hold the KEY button and then immediately press the PRG button.
Press and hold both for at least 5 seconds.
The red and blue LEDs will flash slowly; after 5 seconds the red and blue LEDs flash faster; after a further 2 seconds all the LEDs are illuminated.

The radio finger-scan has now been reset to the delivery condition, all master and user fingers have been deleted and new radio codes generated.

12 List of memory locations

► See the appendix on **page 92**

Example:

Des.	Name	Finger	Radio code location	
			1	2
M1	Max Mustermann	R2	X	
M2	Erika Mustermann	L2		X

13 Technical data

Type:	Radio finger-scan FFL 12
Memory spaces:	14 (2 master fingers, 12 user fingers)
Statusdisplay:	LEDs (red, blue, green)
Learning:	First in - First out
Delete:	Only complete deletion; not possible to individually delete user fingers.
Frequency:	868.3 MHz
Voltage supply:	Battery (4 pieces, type: AAA, LR03)

14 EC manufacturer's declaration

Manufacturer:	Verkaufsgesellschaft KG Upheider Weg 94-98 D-33803 Steinhagen
Product:	Radio finger-scan for door operators and accessories
Device type:	FFL12-868
Article identification:	FFL12-868
CE mark:	CE 0682

Intended for use in all EU countries, Norway, Switzerland and others.

On the basis of its design and type in the version marketed by us, the product described above meets the relevant safety and health requirements of the directives listed below. Any modification made to this product without our express permission and approval shall render this declaration null and void.

Pertinent provisions with which the product complies:

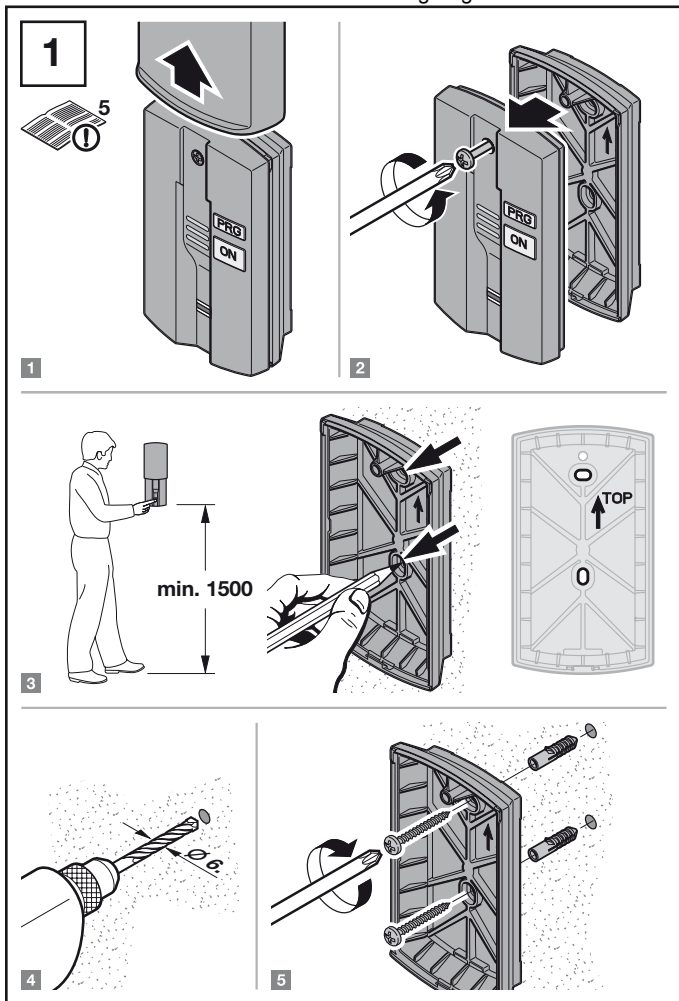
Conformity of the abovementioned product with the requirements of the directives according to section 3 of the R & TTE directives 1999/5/EC was verified by compliance with the following standards:

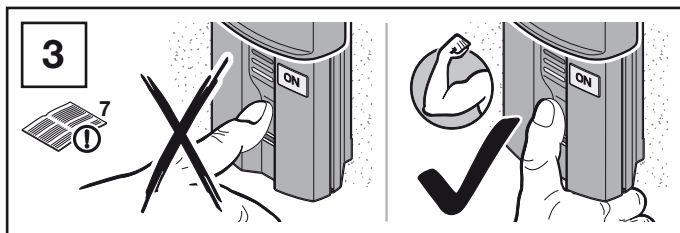
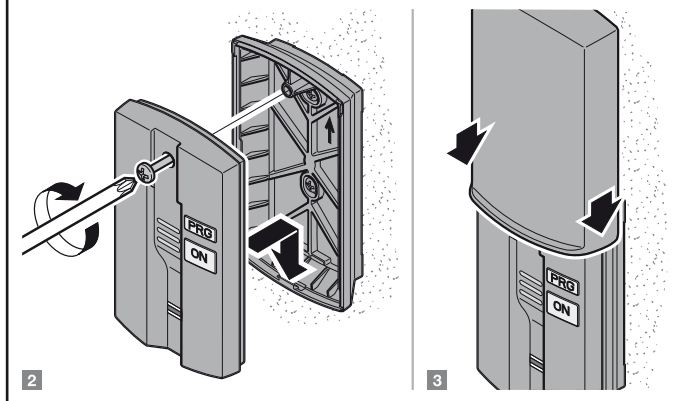
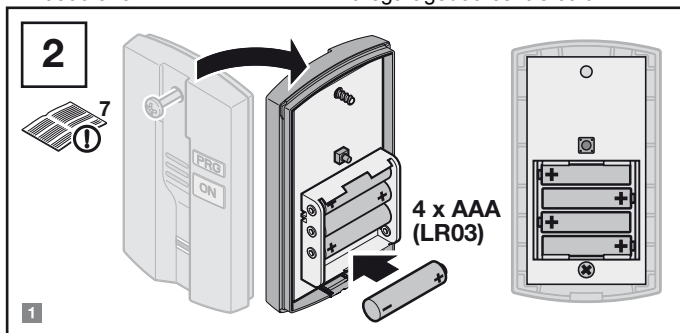
EN 300 220-1
EN 300 220-2
EN 301 489-1
EN 301 489-3

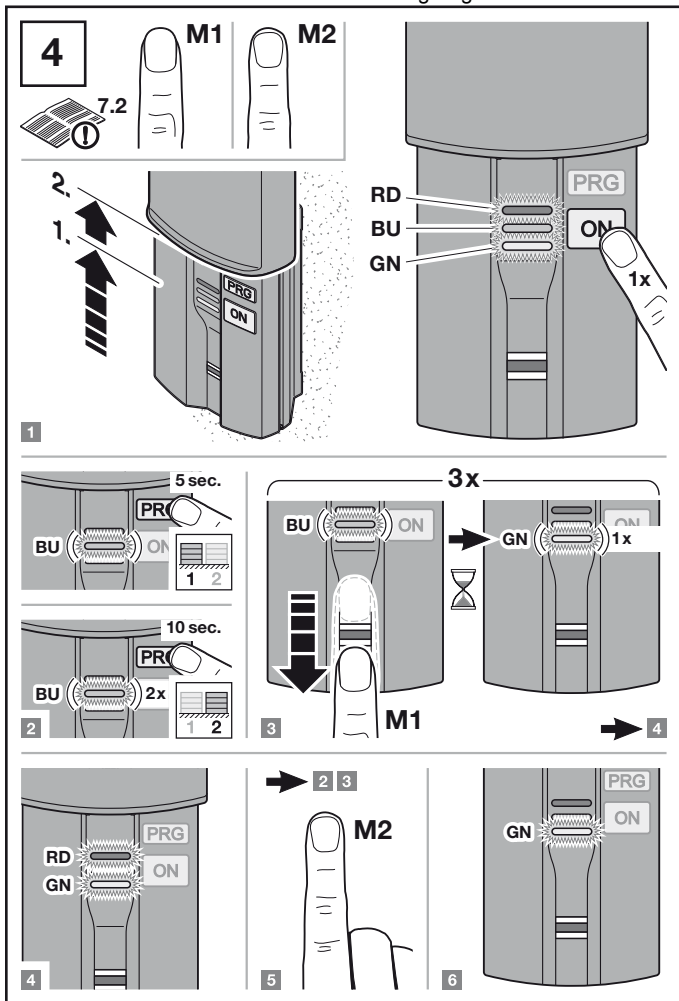
Steinhagen, Germany, 26.01.2009



ppa. Axel Becker
Managing Director

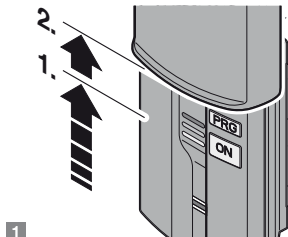
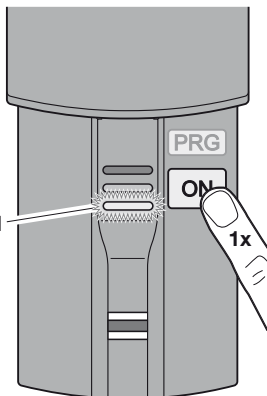




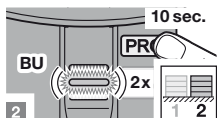
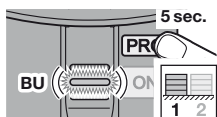


5

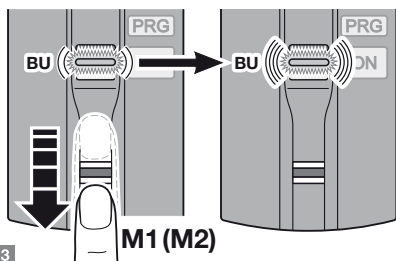
B1 B2 B3 → B12



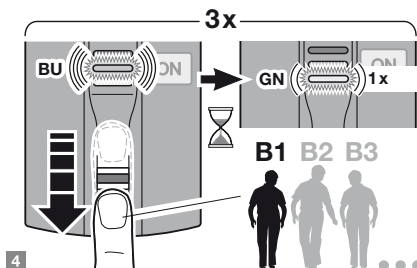
1



2



3

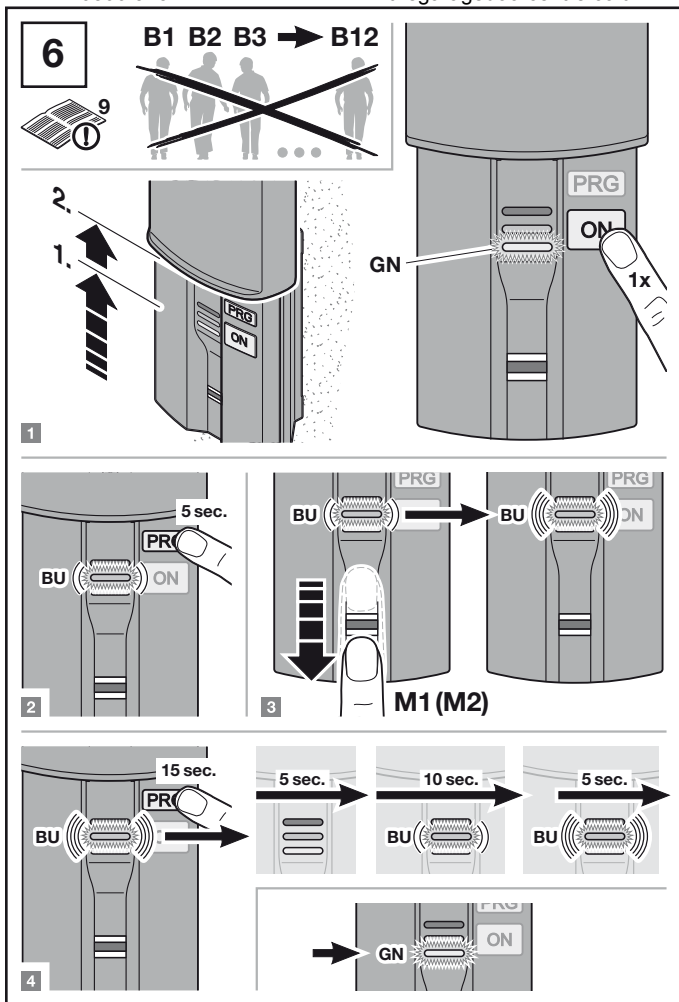


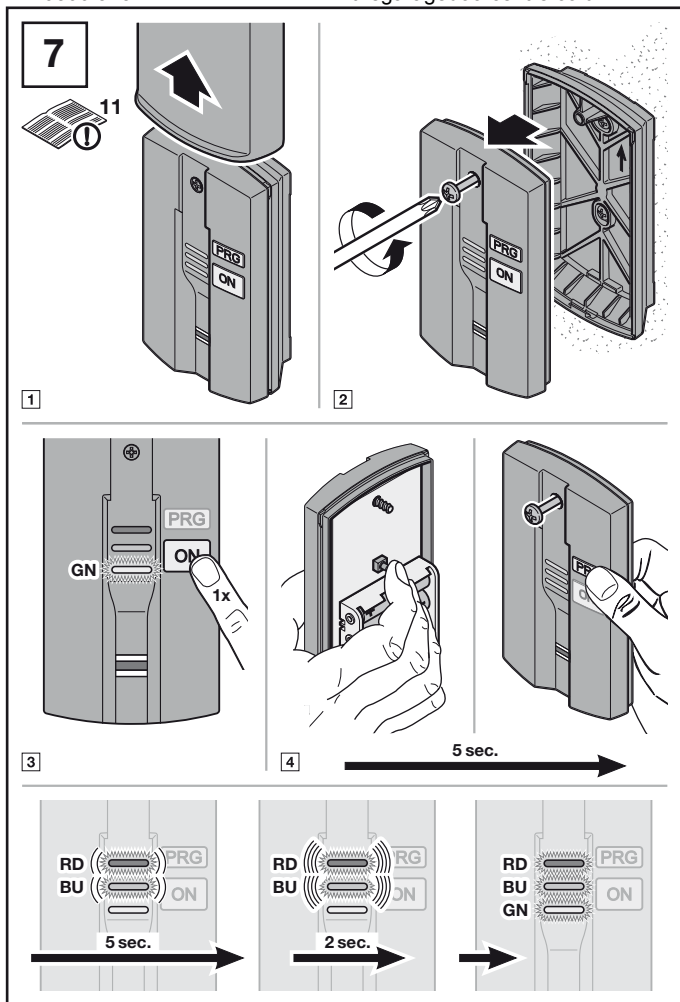
4



5









M1				
M2				
B1				
B2				
B3				
B4				
B5				
B6				
B7				
B8				
B9				
B10				
B11				
B12				

