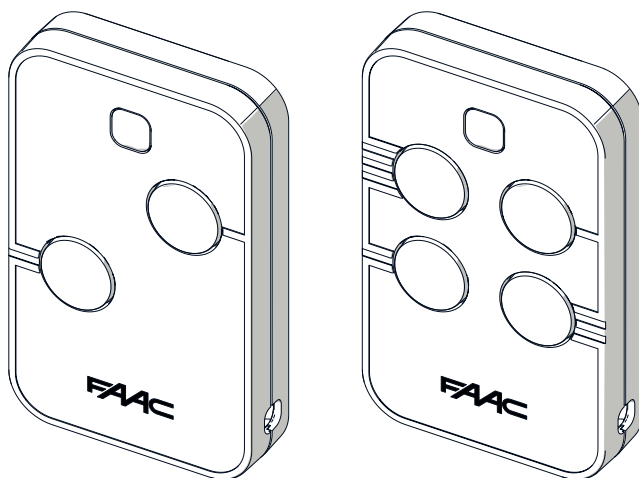


XT02-XT04



EN

FAAC

CONTENTS

1. INTRODUCTION TO THE INSTRUCTION MANUAL 3
1.1 MEANING OF THE SYMBOLS USED 3

2. PRODUCT INFORMATION 4
2.1 TECHNICAL SPECIFICATIONS..... 4
2.1.1. Available models 4
2.1.2. Technical data 4
2.2 PRODUCT IDENTIFICATION..... 5
2.3 IDENTIFYING THE ENCODING PROTOCOL 6

3. PROCEDURE FOR XTO TRANSMITTERS WITH SLH ENCODING 7
3.1 MEMORISING THE FIRST XTO WITH SLH ENCODING..... 7
3.2 LEARNING FROM A PREVIOUSLY MEMORISED SLH TRANSMITTER..... 8
3.3 ENABLING THE LOCK FUNCTION ON XTO SLH 9
3.4 RESETTING AN RC/SL/DS CHANNEL TO SLH 10

4. PROCEDURE FOR XTO TRANSMITTERS WITH RC ENCODING 11
4.1 CONVERTING AN SLH ENCODED CHANNEL INTO RC (433 ONLY)..... 11
4.2 MEMORISATION ON RECEIVER 12
4.3 ADDING NEW XTO RCS WITHOUT ACCESSING THE BOARD 13

5. PROCEDURE FOR XTO TRANSMITTERS WITH SL ENCODING..... 14
5.1 LEARNING FROM A PREVIOUSLY MEMORISED SL TRANSMITTER..... 14
5.2 ENABLING THE LOCK FUNCTION ON XTO SL..... 15

6. PROCEDURES FOR XTO TRANSMITTERS WITH DS ENCODING 16
6.1 LEARNING FROM A PREVIOUSLY MEMORISED DS TRANSMITTER..... 16

7. MAINTENANCE..... 17
7.1 RESTORE FACTORY SETTINGS (THIS OPERATION IS IRREVERSIBLE) 17
7.2 REPLACING THE BATTERY 18

1. INTRODUCTION TO THE INSTRUCTION MANUAL



The images of the receiver board are for illustration purposes only and do not represent a specific model or receiver. For detailed information, please refer to the manual of the installed board.

1.1 MEANING OF THE SYMBOLS USED



ATTENTION - Indicates an important note.



TIME - Perform the operation within the time indicated.



CLOCK - Indicates the duration of the operation (in seconds).



Press and hold one or more buttons until a specific indication is given.



Release one or more buttons.



Press and release one or more buttons.



Refer to the instructions.



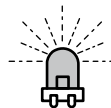
LED STEADY ON



LED OFF



SLOW FLASHING



FAST FLASHING

2. PRODUCT INFORMATION

The XTO is a transmitter designed for automatic vehicle and pedestrian entrance applications.

2.1 TECHNICAL SPECIFICATIONS

The XTO transmitter is available in four models that differ in frequency and number of channels: the XTO2 model has two channels, while the XTO4 model has four (each channel is assigned to a specific button).

The XTO transmitters are compatible with the following communication protocols:

- XTO 433 MHz: SLH-SL-DS-RC
- XTO 868 MHz: SLH-DS

Each button can be programmed to transmit a different protocol to the others.

SLH encoded XTO transmitters are fully compatible with the SLHP system.

XTO transmitters with SL and DS protocols can be stored on a board if they learn the code from an SL or DS transmitter already stored on the board.

2.1.1. AVAILABLE MODELS

- XTO2 SLH-SL-DS-RC 433 MHz
- XTO4 SLH-SL-DS-RC 433 MHz
- XTO2 SLH-DS 868 MHz
- XTO4 SLH-DS 868 MHz

2.1.2. TECHNICAL DATA

	XTO2 SLH-SL-DS-RC 433 MHz	XTO4 SLH-SL-DS-RC 433 MHz	XTO2 SLH-DS 868 MHz	XTO4 SLH-DS 868 MHz
Channels	2	4	2	4
Frequency	433.92 MHz	433.92 MHz	868.35 MHz	868.35 MHz
RF power	<10 dBm (10 mW)	<10 dBm (10 mW)	<10 dBm (10 mW)	<10 dBm (10 mW)
Compatible communication protocols	SLH-SL-DS-RC	SLH-SL-DS-RC	SLH-DS	SLH-DS
Default communication protocol	SLH	SLH	SLH	SLH
Power supply	1 lithium battery 3V CR2032	1 lithium battery 3V CR2032	1 lithium battery 3V CR2032	1 lithium battery 3V CR2032

2.2 PRODUCT IDENTIFICATION

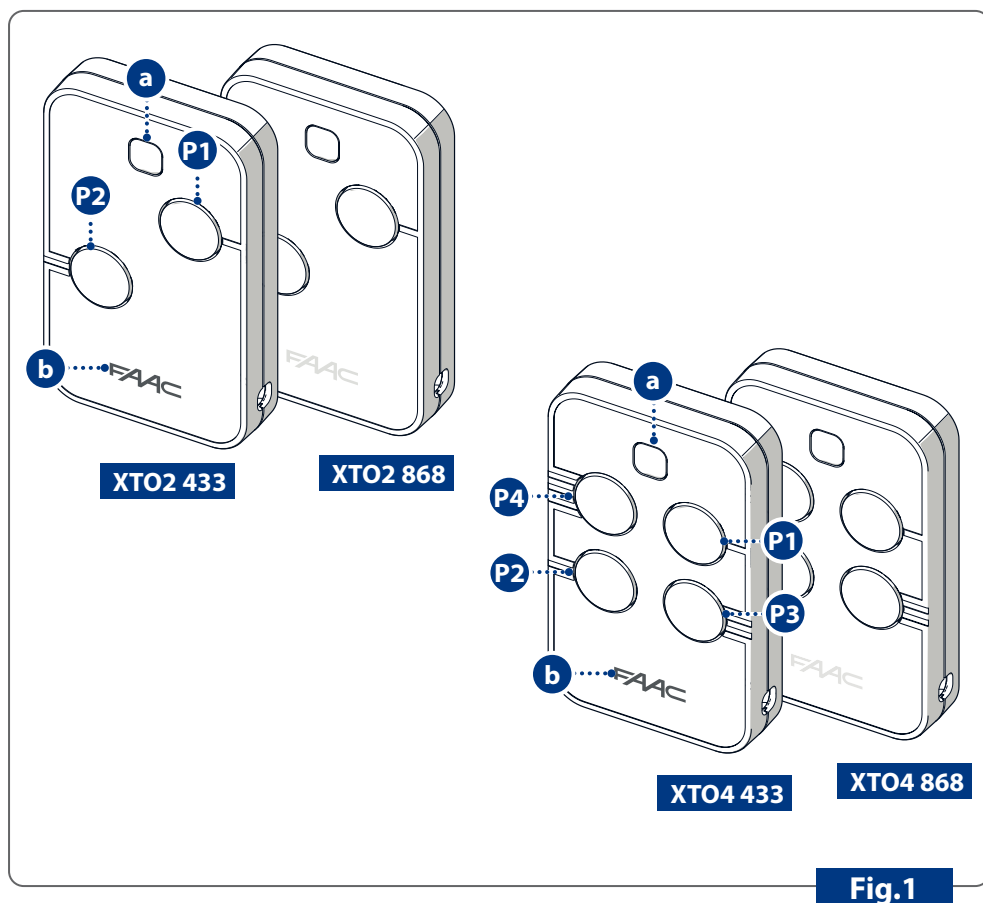


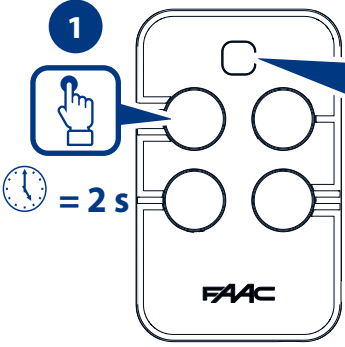
Fig.1

Pos	Description
a	LED
b	grey logo: 433 MHz white logo: 868 MHz
P1	Button P1
P2	Button P2
P3	Button P3
P4	Button P4

2.3 IDENTIFYING THE ENCODING PROTOCOL

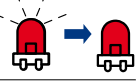
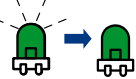
Each button on the XTO transmitter can be programmed with a different encoding protocol. To identify the protocol follow the procedure below.

1



= 2 s

2

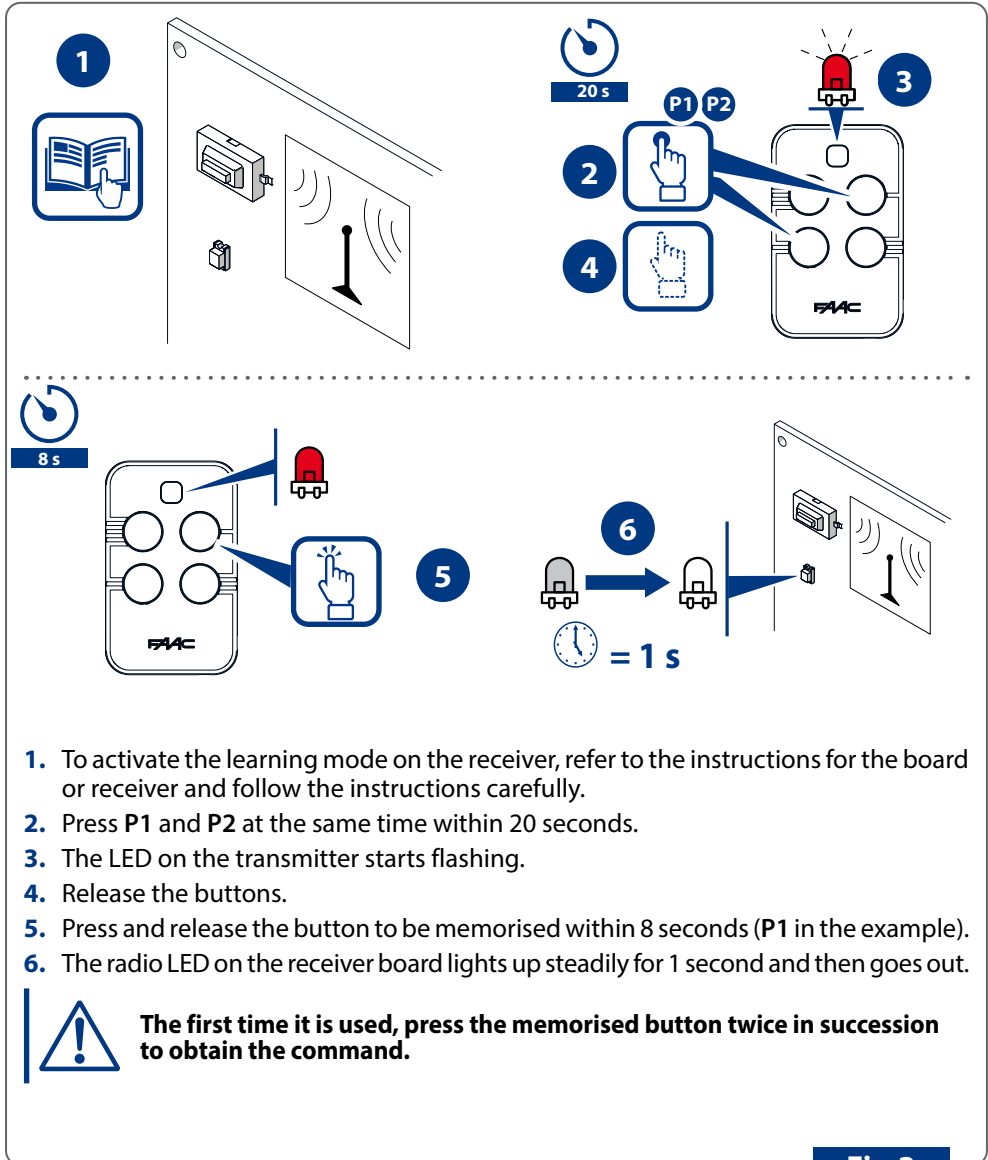
	Red 1 flash and then steady	SLH
	Steady red	SLH with LOCK function enabled
	Flashing green	RC
	Green 1 flash and then steady	SL
	Steady green	SL with LOCK function enabled
	Flashing red	DS

1. Press the button to be identified for 2 seconds.
2. The LED will light up or flash according to the type of radio protocol memorised.

Fig.2

3. PROCEDURE FOR XTO TRANSMITTERS WITH SLH ENCODING

3.1 MEMORISING THE FIRST XTO WITH SLH ENCODING


Fig.3

3.2 LEARNING FROM A PREVIOUSLY MEMORISED SLH TRANSMITTER



Self-learning can only take place if the transmitter is not locked. To determine the status, please see section: § 2.2 Product identification.

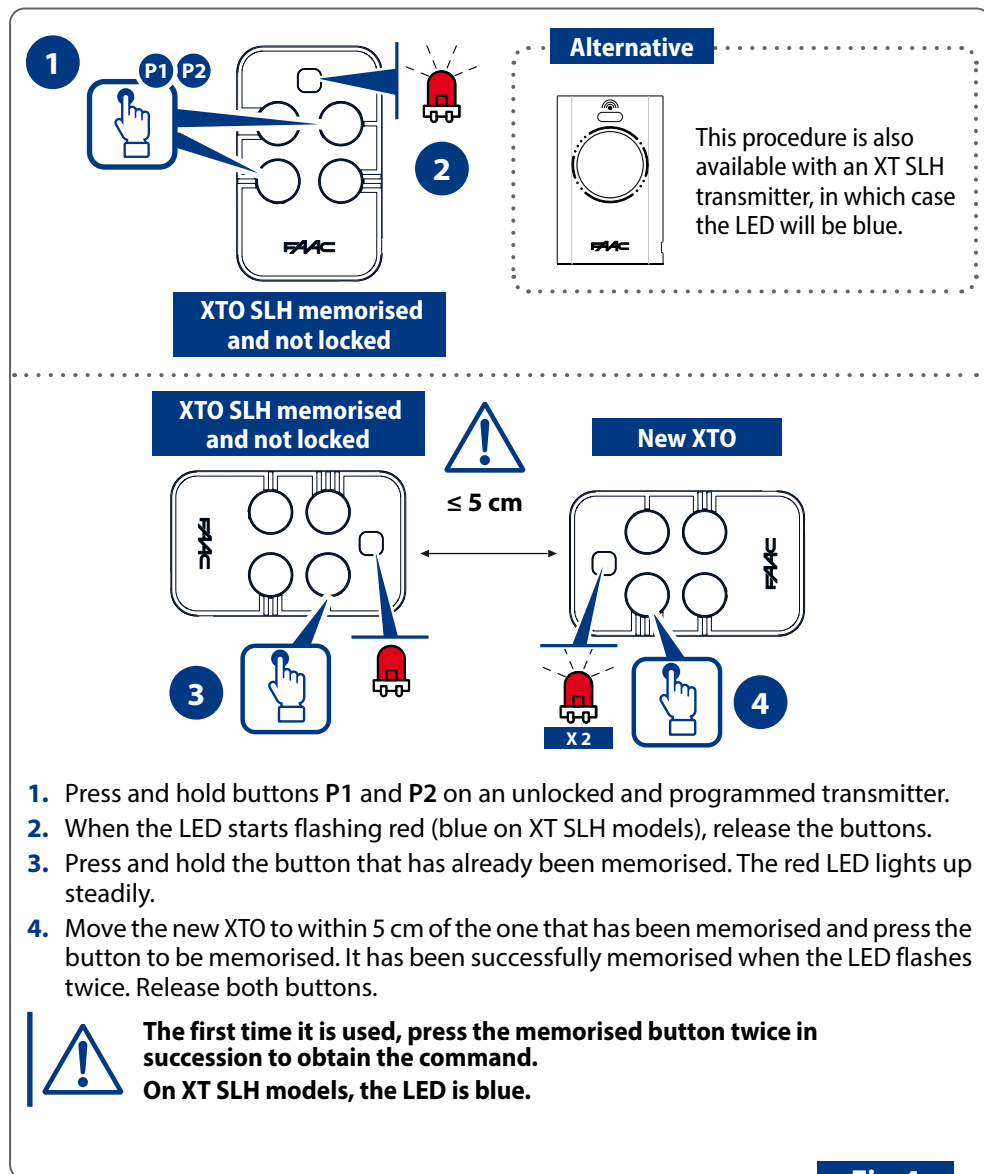


Fig.4

3.3 ENABLING THE LOCK FUNCTION ON XTO SLH



XTO with the lock function enabled cannot memorise its code on the receiver or transmit its code to another transmitter.

To disable the lock function, a factory reset must be carried out (see § 7.1 **Restore factory settings (this operation is irreversible)**)

The lock function is only available for SLH and SL channels; enabling it will lock all SLH or SL channels on the transmitter.

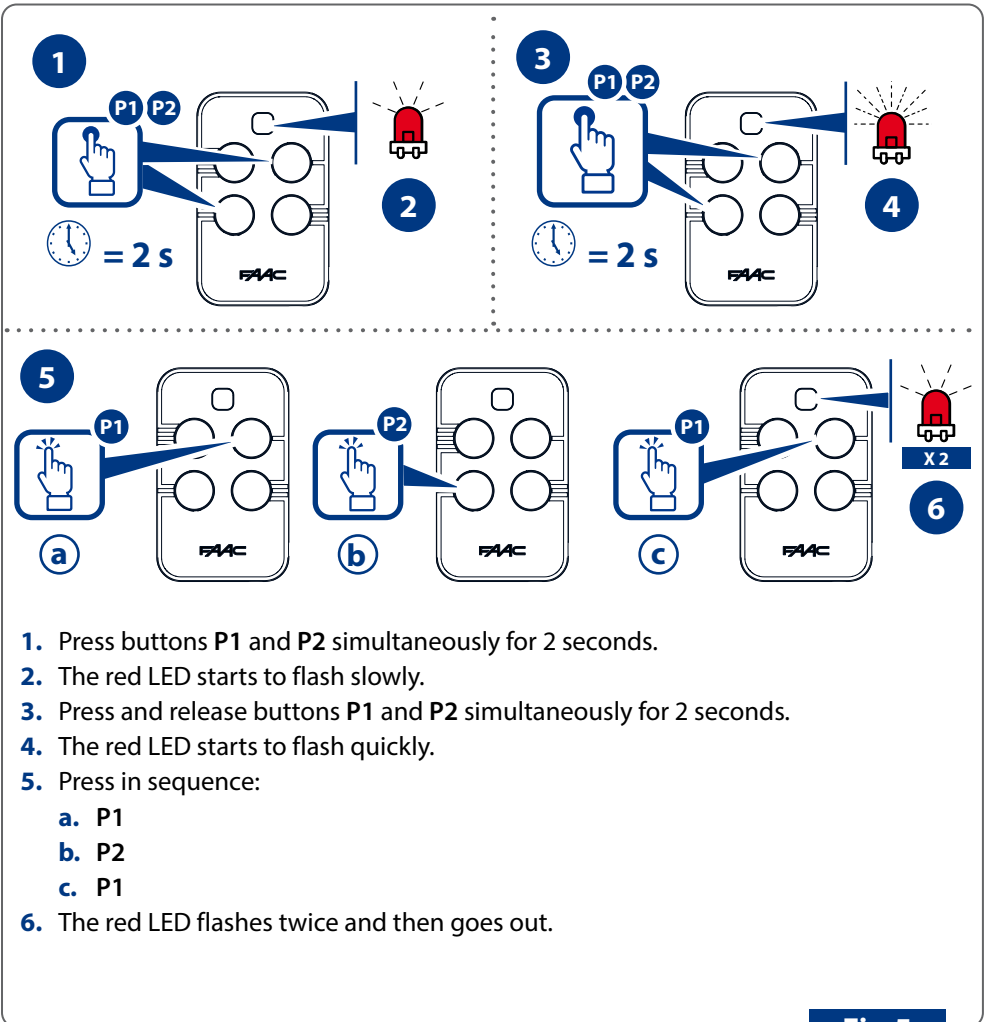


Fig.5

3.4 RESETTING AN RC/SL/DS CHANNEL TO SLH

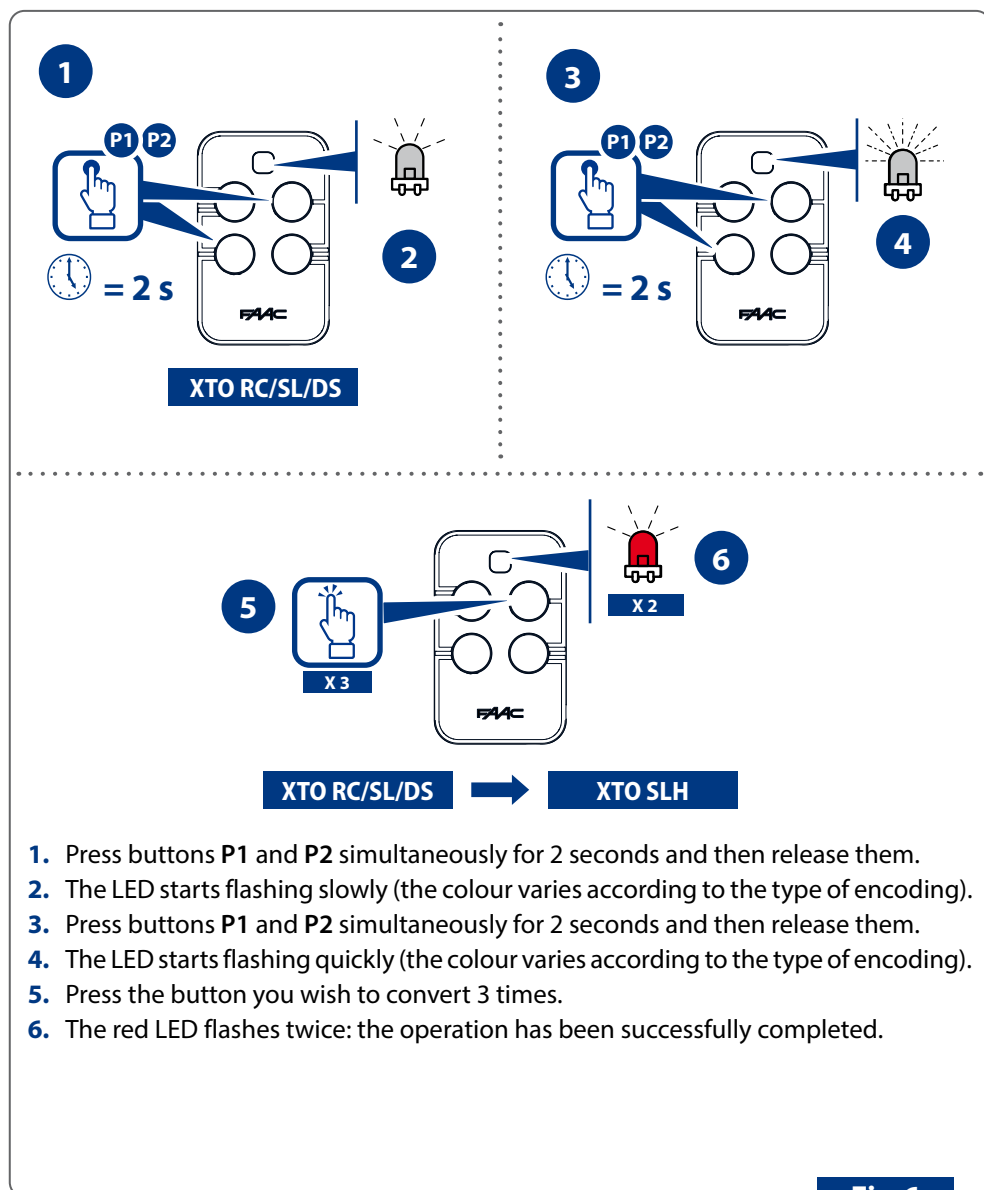


Fig.6

4. PROCEDURE FOR XTO TRANSMITTERS WITH RC ENCODING

4.1 CONVERTING AN SLH ENCODED CHANNEL INTO RC (433 ONLY)

The XTO transmitters are set at the factory to use SLH encoding on all channels. To work with devices that require RC encoding, the channels must be converted to this encoding before carrying out memorisation.

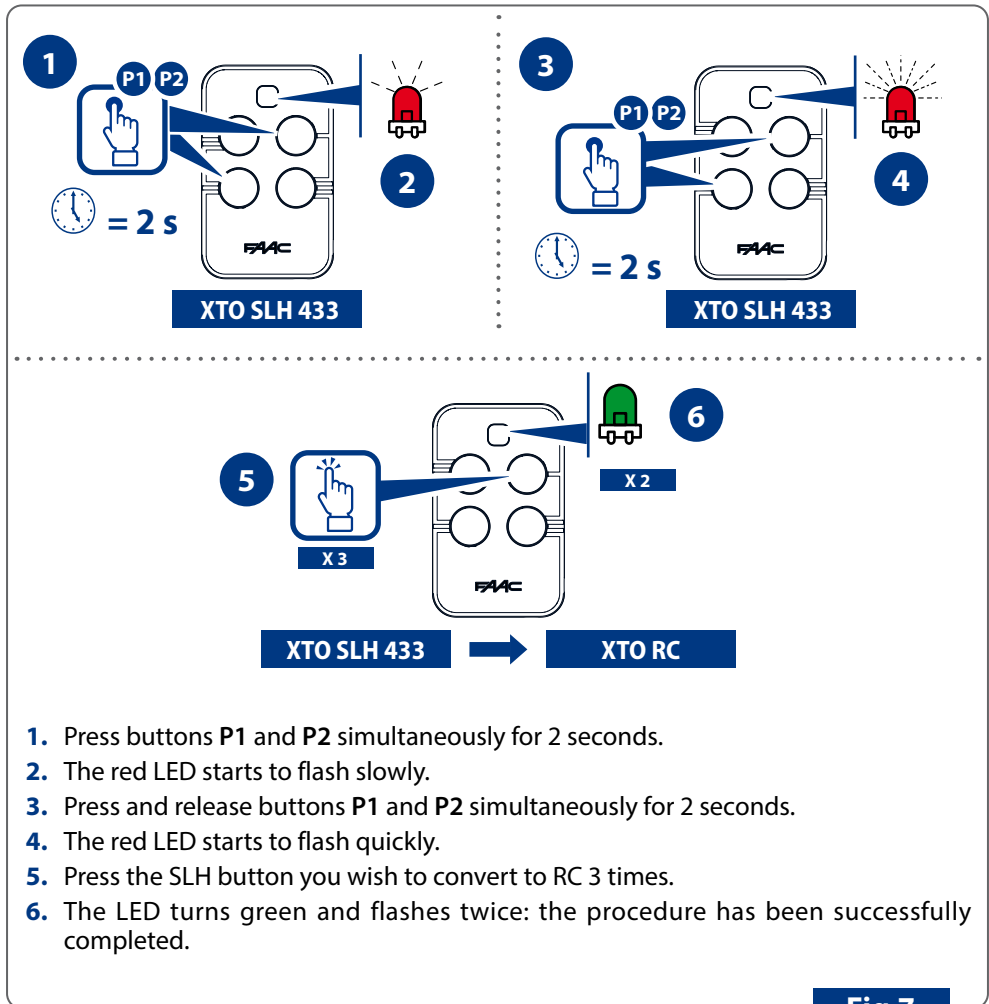


Fig.7

4.2 MEMORISATION ON RECEIVER

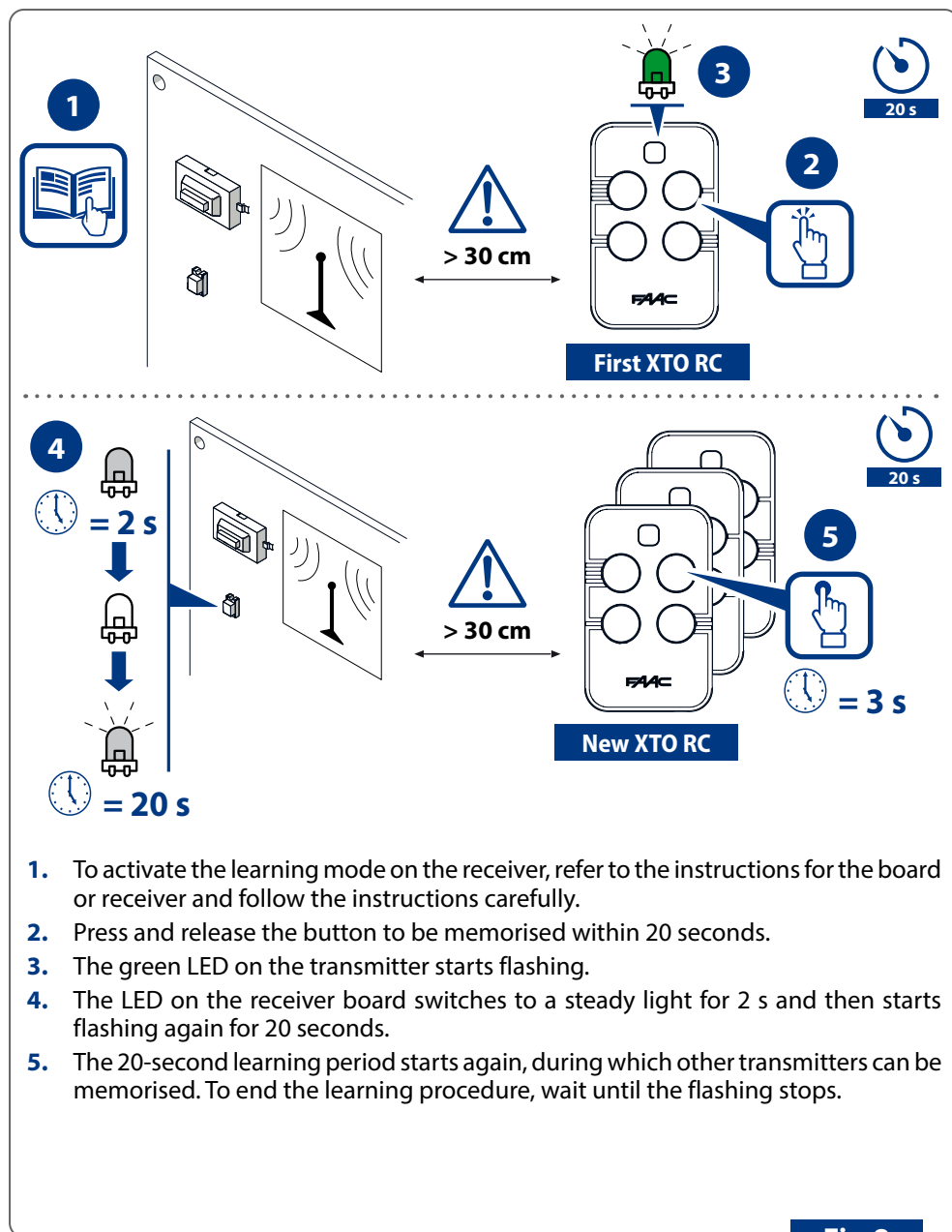


Fig.8

4.3 ADDING NEW XTO RCS WITHOUT ACCESSING THE BOARD

Transmitters with at least one channel in RC mode can activate the learning procedure from a transmitter that has already been memorised, without having to access the board.

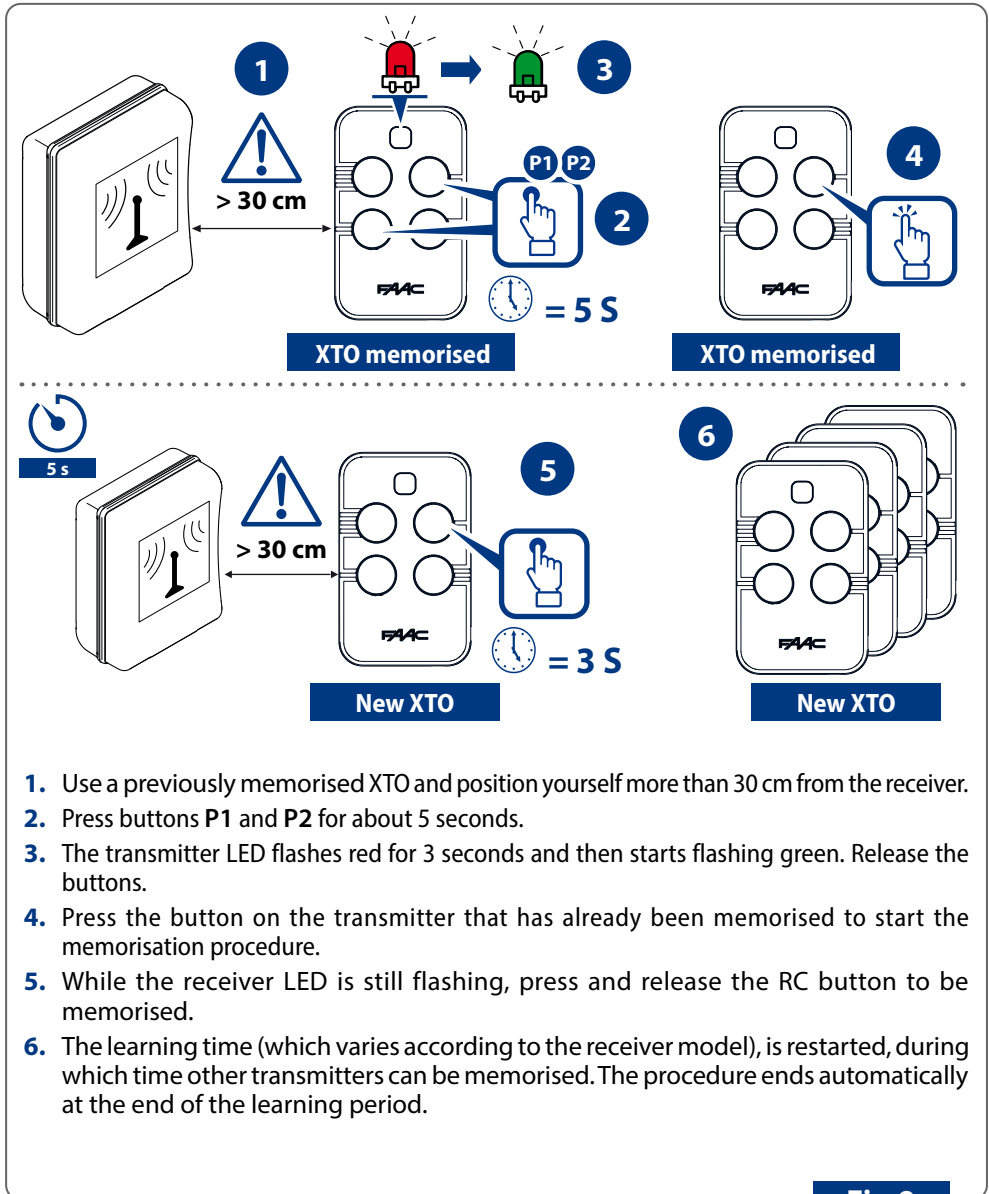
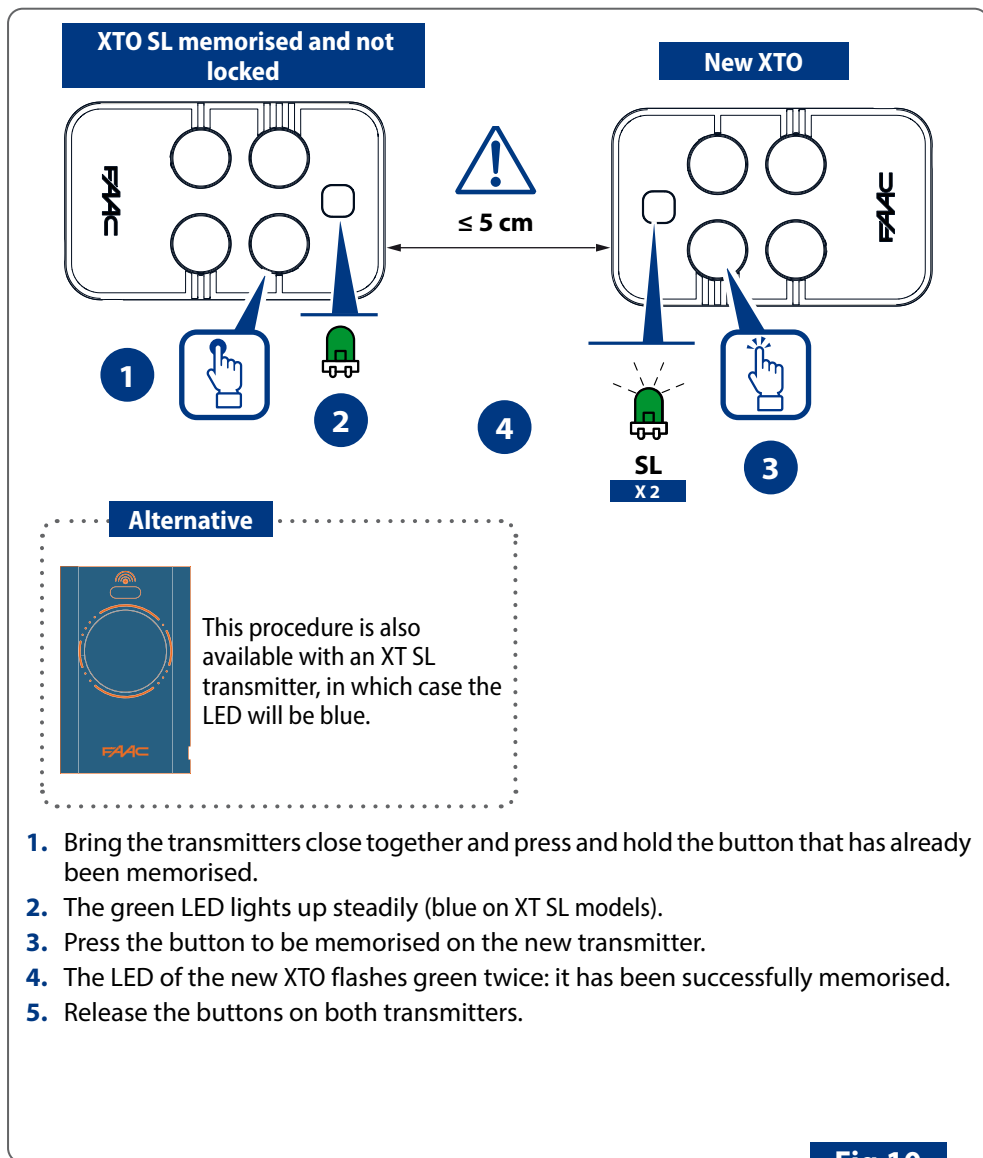


Fig.9

5. PROCEDURE FOR XTO TRANSMITTERS WITH SL ENCODING

5.1 LEARNING FROM A PREVIOUSLY MEMORISED SL TRANSMITTER



5.2 ENABLING THE LOCK FUNCTION ON XTO SL



An XTO with the lock function enabled cannot memorise its code on the receiver or transmit its code to another transmitter.

To unlock the transmitter, it must be reset to the factory settings. To perform the reset, follow the instructions in section § 7.1 **Restore factory settings (this operation is irreversible)**

The lock function is only available on SLH and SL channels; enabling it will lock all SLH or SL channels on the transmitter.

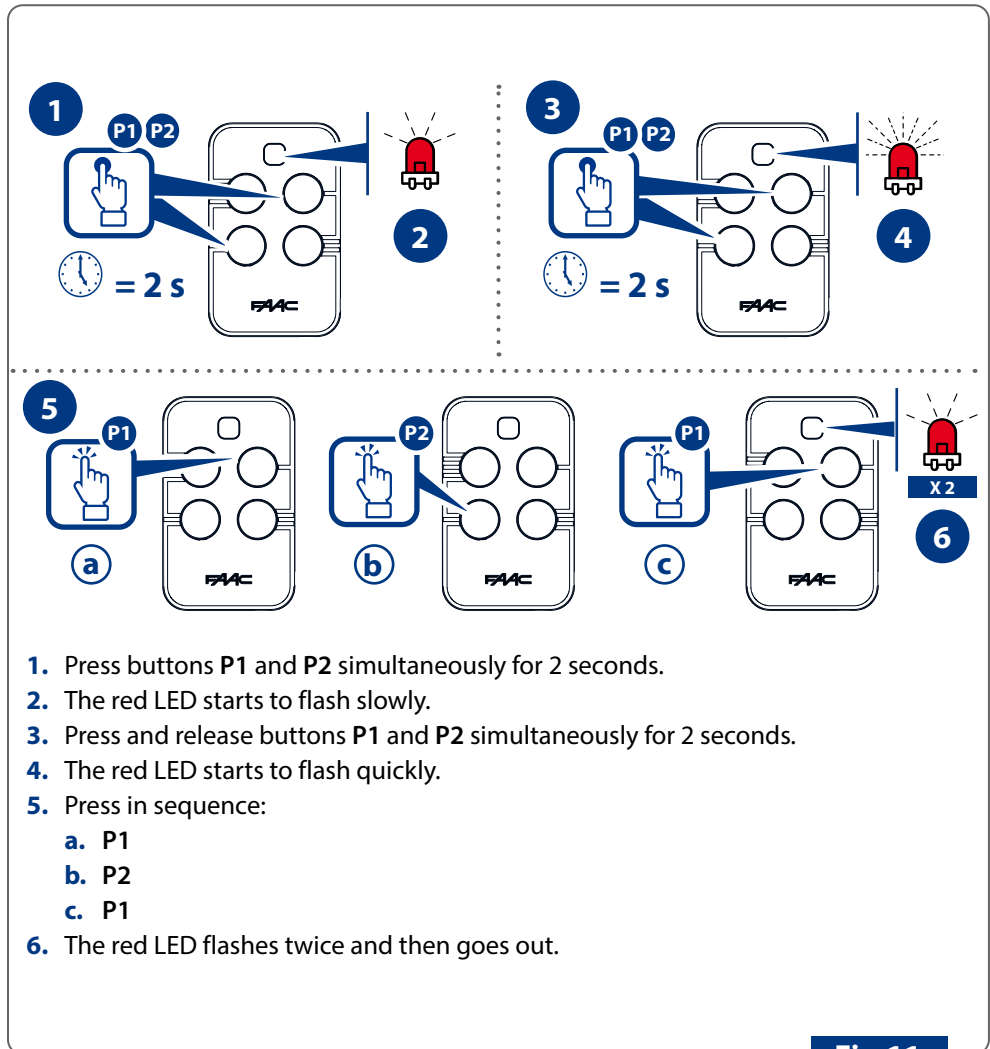
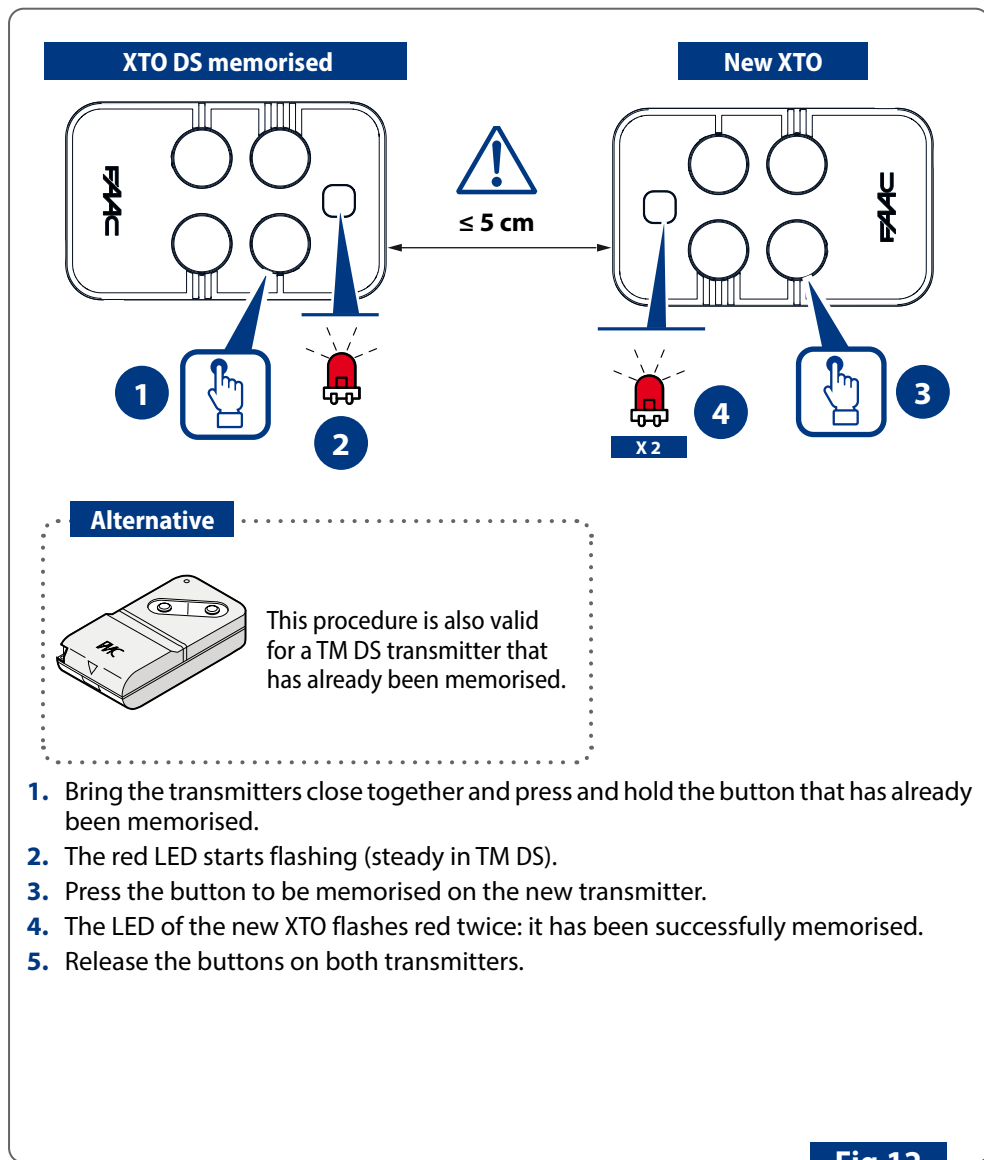


Fig.11

6. PROCEDURES FOR XTO TRANSMITTERS WITH DS ENCODING

6.1 LEARNING FROM A PREVIOUSLY MEMORISED DS TRANSMITTER



7. MAINTENANCE

7.1 RESTORE FACTORY SETTINGS (THIS OPERATION IS IRREVERSIBLE)



WARNING: resetting the transmitter reloads the factory settings and disables it on systems that have already been configured.

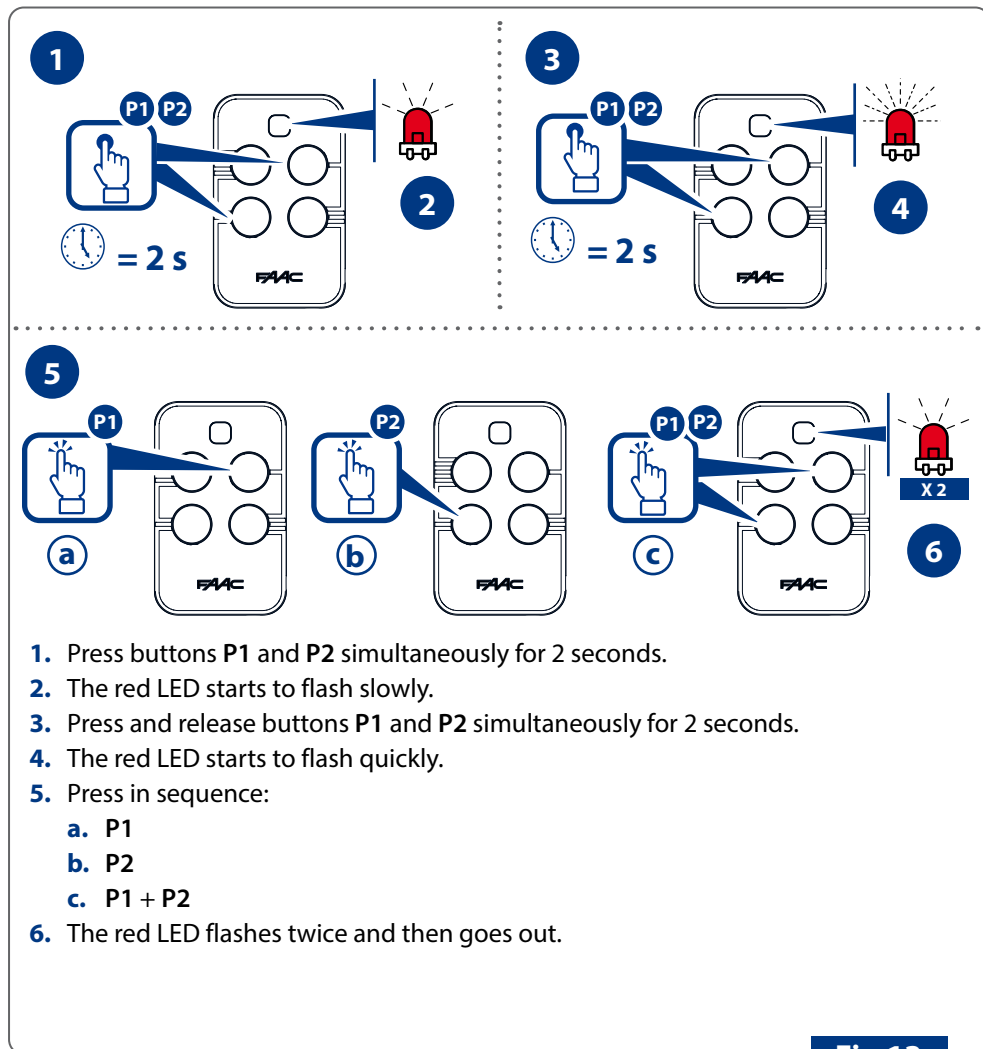


Fig.13

7.2 REPLACING THE BATTERY

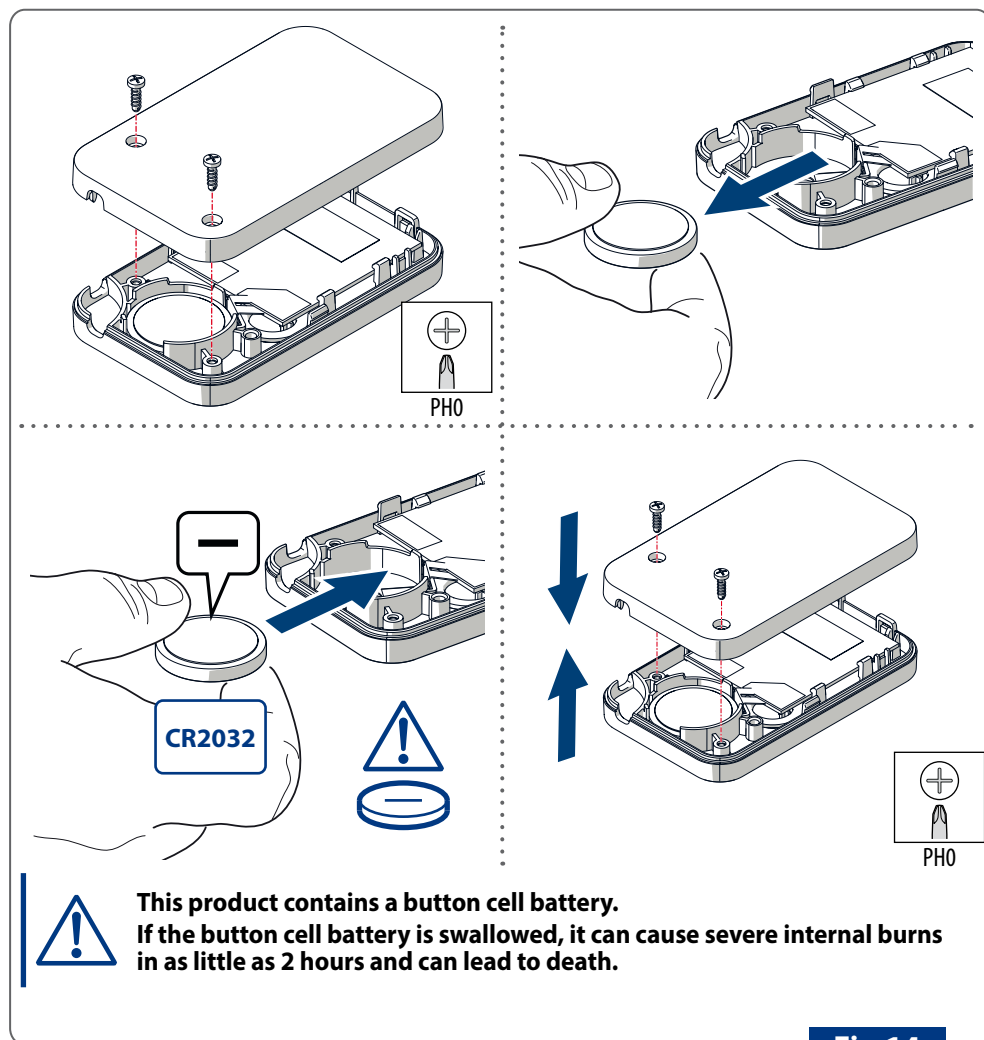


Fig.14

