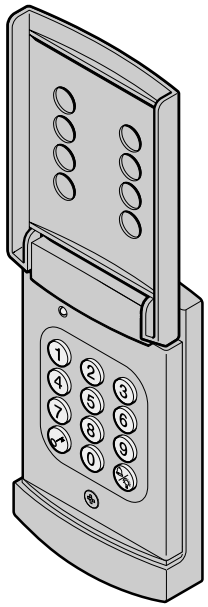
HÖR/Funkcodet FCT3b_USA 20.07.2004 15:26 Uhr Seite 1 humpe-933 Macintosh HD:KUNDEN:HÖR/AST:HÖR/AST/Amerika:HÖR/USA Zubehör



HÖRMANN
SupraMatic Series

Instructions for installation and operation

Radio keypad FCT3b
for the garage door operator

07.2004 TR20H006 RE

HÖR/Funkcodet FCT3b_USA 20.07.2004 15:26 Uhr Seite 2 humpe-933 Macintosh HD:KUNDEN:HÖR/AST:HÖR/AST/Amerika:HÖR/USA Zubehör

HÖR/Funkcodet FCT3b_USA 20.07.2004 15:26 Uhr Seite 3 humpe-933 Macintosh HD:KUNDEN:HÖR/AST:HÖR/AST/Amerika:HÖR/USA Zubehör

Protected by copyright.
Subject to technical modifications. Any re-prints, in whole or in part, are not permitted without prior written approval. All terms subject to change.

CE EN 50081
EN 50082
I-ETS 300220

HÖR/Funkcodet FCT3b_USA 20.07.2004 15:26 Uhr Seite 4 humpe-933 Macintosh HD:KUNDEN:HÖR/AST:HÖR/AST/Amerika:HÖR/USA Zubehör

ENGLISH

USA:
FCC ID: PZI-390FCT3b
Canada:
IC: 4205A-390FCT3b

This device complies with Part 15 of the FCC Rules and with RSS-210 of Industry Canada.

Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and
(2) This device must accept any interference received, including interference that may cause undesired operation.

CAUTION!
Changes or modifications made to this equipment not expressly approved by Hörmann may void the FCC authorization to operate this equipment.

The radiated output power of the FCT3b with operating frequencies 390 MHz is far below the FCC radio frequency exposure limits.

Nevertheless, the FCT3b operating frequencies 390 MHz shall be used in such a manner that the potential for human contact during normal operation is minimized.

IC: before the equipment certification number signifies that the Industry Canada technical specifications were met. It does not guarantee that the certified product will operate to the user's satisfaction.

HÖR/Funkcodet FCT3b_USA 20.07.2004 15:26 Uhr Seite 5 humpe-933 Macintosh HD:KUNDEN:HÖR/AST:HÖR/AST/Amerika:HÖR/USA Zubehör

ENGLISH

Important Information

Read and follow these instructions carefully. They provide important information for the safe installation and operation of your FCT3b.

Please also follow the instructions to ensure safe operation of the operator and door.

Keep these instructions in a safe place so that you can refer to them as needed.

Only drive through or walk under a remote-controlled door if the door is stationary and in the “fully-open” position.

Only use the FCT3b when the door is within sight.

When installing the FCT3b, use only original components.

Observe local safety regulations, especially where a 120V AC power supply is concerned. Any work should be carried out by a qualified electrician.

- To ensure proper operation, all equipment should be protected from direct sunlight, moisture or dirt.
- The FCT3b has a temperature tolerance from -4 °F to +140 °F.

  If more than one radio receiver is required, make sure that these are mounted at least 3 feet from each other.

Note:
Local conditions can affect the range of the remote signal.

HÖR/Funkcodet FCT3b_USA 20.07.2004 15:26 Uhr Seite 6 humpe-933 Macintosh HD:KUNDEN:HÖR/AST:HÖR/AST/Amerika:HÖR/USA Zubehör

ENGLISH

1 General
2 Installation
3 Important terminology
4 Signals of the LED
5 Operation
5.1 Programming function
5.1.1 Programming/altering of access codes
5.2 Operating functions
5.2.1 Transmitting after entering an access code
5.2.2 Duplicating radio code from a hand transmitter to the FCT3b after entering an access code
5.2.3 Recoding or resetting the radio code locations after entering an access code
5.3 Function of the "bell/light" button
5.3.1 Transmitting using the "bell/light" button
5.3.2 Duplicating radio code from a transmitter to the "bell/light" button
5.3.3 Recoding or resetting the "bell/light" button
6 Resetting the FCT3b to factory settings

Fig. 1 Installing the FCT3b
Fig. 2 Duplicating radio code from a hand transmitter to the FCT3b
Fig. 3 Signals of the LED
Fig. 4 Programming/altering of access codes

1 General

The FCT3b is a combination of a transmitter and a keypad.
It will only function with a Hörmann operator and/or receiver.

Note:
Before permanently installing the FCT3b be sure that the chosen location allows the radio signal to be properly received.

The FCT3b can be installed at any desired location but at least 1" away from metal surfaces, otherwise use a plastic spacer.

The FCT3b is powered by two CR2032 lithium batteries **(see Fig. 1)**. Successful entries and alterations are stored and retained even after voltage loss. With three freely selectable 4-digit access codes you can operate up to three functions. In addition, you can operate a bell or outdoor light (not protected by an access code). This requires an additional receiver. The light of the keypad comes on at the first press of a button and stays on for 20 seconds after the last keystroke.

2 Installation

WARNING
- **The FCT3b must be securely installed in sight of the door but away from any moving parts.**
- **The FCT3b must be installed out of reach of children (minimum height: 5 ft).**

Choose an installation location for the FCT3b well away from existing cables and appliances with mains voltage **(see Fig. 1)**.

HÖR/Funkcodet FCT3b_USA 20.07.2004 15:26 Uhr Seite 7 humpe-933 Macintosh HD:KUNDEN:HÖR/AST:HÖR/AST/Amerika:HÖR/USA Zubehör

WARNING
WORK SAFELY. ALWAYS wear appropriate safety protection when using any tools.

3 Important terminology

Access codes
These are 4-digit freely selectable unique codes, enabling you to access the three radio code locations 1 to 3. An access code is always assigned to a specific radio code location. In the factory setting or after a reset the access codes are:

Access code for radio code location **1**: "1234"
Access code for radio code location **2**: "2345"
Access code for radio code location **3**: "3456"

Radio code location
This is a storage space for a radio code. There are 4 radio code locations in the FCT3b. The radio code locations 1 to 3 are only accessible with an access code. The fourth is the "bell/light" button which does not require an access code.

Radio code
There are 1 billion factory preprogrammed unique radio code combinations possible for every transmitter and radio code location.

4 Signals of the LED

Depending on the operation mode the LED **(see a Fig. 2)** lights up in different patterns:
- short signal (fig. 3a)
- long signal (fig. 3b)
- slow flashing (fig. 3c)
- fast flashing (fig. 3d)
- very fast flashing (fig. 3e)

5 Operation

During normal operation all functions of the unit are activated, whereby a distinction is made between programming functions and operating functions.

5.1 Programming function

Use this function to programm the access codes. The programming function differs from the operating functions in that the "key" button has to be pressed before the actual numeric entry is made. Any buttons pressed before pressing the "key" button will deactivate the unit's programming function for 20 seconds.

Note:
Every correct press of a button is acknowledged by a short signal from the LED. This way, you can monitor whether a button was actually pressed. No more than 15 seconds may elapse between two buttons being pressed in succession. Otherwise, the LED emitts a long signal and you have to start again. In this way an operation initiated by mistake can be canceled and re-started. An invalid or incorrect entry is signaled by three short LED signals after which the unit is completely de-activated for 10 seconds. Wait for a long LED signal before restarting.

5.1.1 Programming/altering of access codes

From the factory or after a reset all 3 storage spaces are preprogrammed with an access code. The factory codes are "1234" for storage space **1**, "2345" for storage ➤

HÖR/Funkcodet FCT3b_USA 20.07.2004 15:26 Uhr Seite 8 humpe-933 Macintosh HD:KUNDEN:HÖR/AST:HÖR/AST/Amerika:HÖR/USA Zubehör

space **2** and “3456” for storage space **3**. To programm your own access code do as follows **(see Fig.4)**:

1. Press the “key” button once for storage space **1**, twice for storage space **2** or three times for storage space **3**.
2. Enter the valid access code for the storage space you want to use.
3. Press the “key” button. If a valid entry has been made the LED gives a long signal. If an invalid entry has been made the LED gives three short signals.
4. Enter the new 4-digit access code.
5. Press the “key” button. If a valid entry has been made the LED gives a long signal.
6. Reenter the new 4-digit access code.
7. Press the “key” button. If a valid entry has been made the LED gives a long signal and the new access code is valid.

Note:
A radio code which is assigned to a storage space number is retained even after altering or deleting its access code.

5.2 Operating functions

The operating functions are the functions which represent the actual operation of the unit.

Tips on entering the access codes with the operating functions:
When entering a valid access code, only the last four digits pressed before pressing the “key” button will be “accepted” by the unit to compare what you have entered against the valid code stored in the unit. This security feature prevents a code from being copied by another person who may, for example, be looking over your shoulder in an attempt to gain access to your property. The LED gives a short signal after every correctly pressed button. This way, you can monitor whether or not the button was actually pressed. No more than 15 seconds may elapse between two buttons being pressed. Otherwise the LED gives a long signal and you can restart.and you then can restart. In this way operation initiated by mistake can be canceled and restarted.

An invalid or incorrect entry is always followed by three short LED signals – after which the unit deactivates for 10 seconds. The procedure may be repeated after a long LED signal.

5.2.1 Transmitting after entering an access code

1. Enter the valid access code using the numeric buttons.
2. Press the “key” button. If a valid entry has been made the LED gives a long signal and the corresponding radio code is transmitted. The LED flashes rapidly while transmitting.

Note:
As long as the “key” button remains pressed, the radio code is transmitted for a maximum of 15 seconds. Now, a 20-second phase starts in which the same radio code can be repeatedly transmitted using any button except the “bell/light” button (the LED flashes rapidly). The end of this phase is indicated by a long LED signal. With the “bell/light” button , the 20-second phase can be prematurely terminated.

HÖR/Funkcodet FCT3b_USA 20.07.2004 15:26 Uhr Seite 9 humpe-933 Macintosh HD:KUNDEN:HÖR/AST:HÖR/AST/Amerika:HÖR/USA Zubehör

This is acknowledged with a long LED signal. You may now enter another access code to activate another function without waiting for the 20 seconds to expire.

5.2.2 Duplicating radio code from a hand transmitter to the FCT3b after entering an access code

WARNING

Activation of the hand transmitter during the duplication process could set the door in motion if an appropriately programmed radio receiver is located nearby.

1. Enter the valid access code.
2. Hold the hand transmitter with the code to be duplicated near the FCT3b (next to numeric button "3") and then press and keep pressed the desired button on the hand transmitter from which the radio code is to be duplicated **(see Fig. 2)**.
3. Press the "key" button and keep it pressed. If a valid entry has been made, the LED gives a long signal.
4. If the received signal from the teaching hand transmitter is strong enough, after approximately 0.5 seconds the LED starts to flash for about 4 seconds indicating that the signal can be duplicated.
5. Keep the buttons pressed until the end of these 4 seconds. After successfully duplicating the radio code, the LED gives a long signal.
6. Release the buttons of the hand transmitter and the FCT3b.
7. Carry out a function test. If this is unsuccessful, repeat steps 1 – 6.

Note:
If **both** buttons are released **before the** 4 seconds have elapsed, the recoding, duplicating or resetting process is terminated. The LED will flash three times The existing radio code is then retained.

5.2.3 Recoding or resetting the radio code locations after entering an access code

1. Enter the valid access code.
2. Press the "key" button and keep it pressed. The LED gives a long signal.
3. **Immediately** press the "bell/light" button and keep it pressed. The LED will flash for approximately 4 seconds, indicating that it is possible to recode or reset to the factory radio coding.
   - If one of the two buttons is released **before the end** of these 4 seconds, the existing radio code is overwritten by a new unique radio code. A successful recoding the LED gives a long signal.
   - If the two buttons continue to be pressed **until the end** of the 4 seconds, the existing radio code is reset to the factory coding. After reverting to the factory code the LED gives a long signal.
4. Release the buttons.

➤

HÖR/Funkcodet FCT3b_USA 20.07.2004 15:26 Uhr Seite 10 humpe-933 Macintosh HD:KUNDEN:HÖR/AST:HÖR/AST/Amerika:HÖR/USA Zubehö

Note:
If **both** buttons are released **before the** 4 seconds have elapsed, the recoding, duplicating or resetting process is terminated. The LED will flash three times The existing radio code is then retained.

5.3 Function of the "bell/light" button
During operation the "bell/light" button can be used like a hand transmitter for transmitting and duplicating, **without having to enter an access code.** Furthermore, its radio code can be recoded as well as reset to the factory coding. **An exception is the 20-second phase** in which the same radio code can be repeatedly transmitted without entering a new access code. If the "bell/light" button is pressed, the 20-second phase will be interrupted. No radio signal will be transmitted.

5.3.1 Transmitting using the "bell/light" button
Press the "bell/light" button. The LED gives a long signal and the radio code is transmitted. The LED flashes rapidly while transmitting.

Note:
As long as the "bell/light" button is pressed, the radio code is transmitted (maximum 15 seconds).

5.3.2 Duplicating radio code from a hand transmitter to the "bell/light" button

WARNING
Activation of the hand transmitter during the duplication process could set the door in motion if an appropriately programmed radio receiver is located nearby.

1. Hold the hand transmitter with the code to be duplicated near the FCT3b (next to numeric button "3") then press and keep pressed the button on the hand transmitter from which the code is to be duplicated **(see Fig. 2)**.
2. Press the "bell/light" button and keep it pressed. If a valid entry has been made the LED gives a long signal.
3. If the received signal from the hand transmitter is strong enough, after approximately 0.5 seconds the LED starts to flash for about 4 seconds indicating that the signal can be duplicated.
4. Keep the buttons pressed until the end of these 4 seconds. After successful duplication of the radio code the LED gives a long signal.
5. Release the buttons of the hand transmitter and the FCT3b.
6. Carry out a function test. If this is unsuccessful, repeat steps 1 – 5.

Note:
If **both** buttons are released **before the end** of the above-mentioned 4 seconds, the recoding or resetting process is terminated and the LED flashes three times. The existing radio code is now retained.

HÖR/Funkcodet FCT3b_USA 20.07.2004 15:26 Uhr Seite 11 humpe-933 Macintosh HD:KUNDEN:HÖR/AST:HÖR/AST/Amerika:HÖR/USA Zubehö

5.3.3 Recoding or resetting the "bell/light" button

1. Press the "bell/light" button and keep it pressed. The LED gives a long signal.
2. **Immediately** press the "key" button and keep it pressed. The LED will flash for approximately 4 seconds, indicating that it is possible to recode or reset to the factory radio coding.

- If **one** of the two buttons is released **before the end** of these 4 seconds, the existing radio code will be overwritten with a new unique radio code. After successfully recoding, the LED gives a long signal.
- If the **two** buttons continue to be pressed **until the end** of the 4 seconds, the existing radio code is reset to the factory coding. After successfully resetting to the factory coding, the LED gives a long signal.

3. Release the buttons.

Note:
If both buttons are released **before the end** of the 4 seconds, the recoding or resetting process is terminatedand the LED flashes three times. The existing radio code is then retained.

6 Reset the FCT3b to factory settings

With a reset all access codes and radio codes of the FCT3b are set back to the factory settings.

1. Take one battery out of the FCT3b.
2. Wait for approximately 10 seconds.
3. Press and hold the "0" button and reinsert the battery.
4. Press and hold the "0" button until the red LED stops flashing.
5. Release the "0" button. The FCT3b has been reset to the factory settings.

Note:
If the "0" button is released before the end of the above mentioned 5 seconds, the reset will be canceled and the LED will flash three times. All previously programmed access codes and radio codes will be retained.

HÖR/Funkcodet FCT3b_USA 20.07.2004 15:26 Uhr Seite 12 humpe-933 Macintosh HD:KUNDEN:HÖR/AST:HÖR/AST/Amerika:HÖR/USA Zubehö

Fig. 1

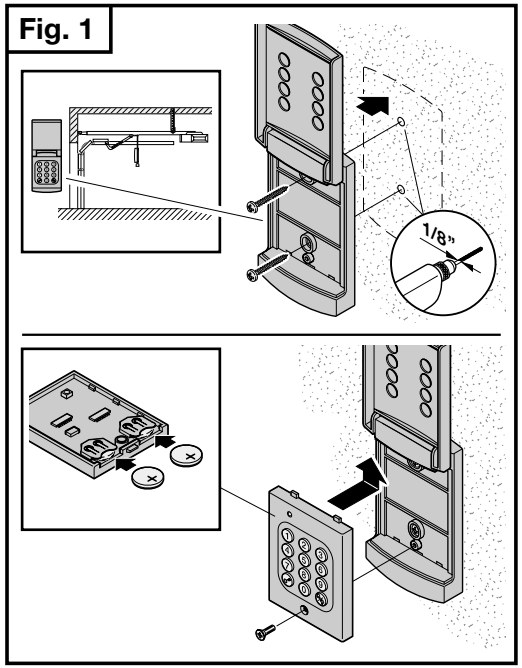


Fig. 2

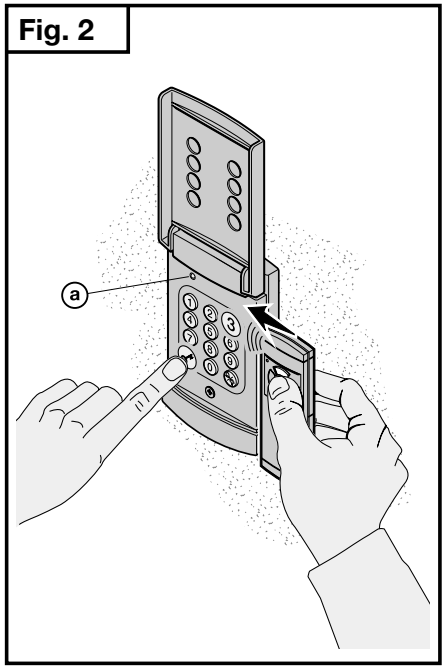


Fig. 3

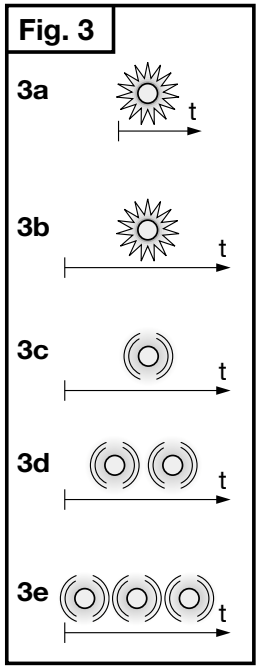
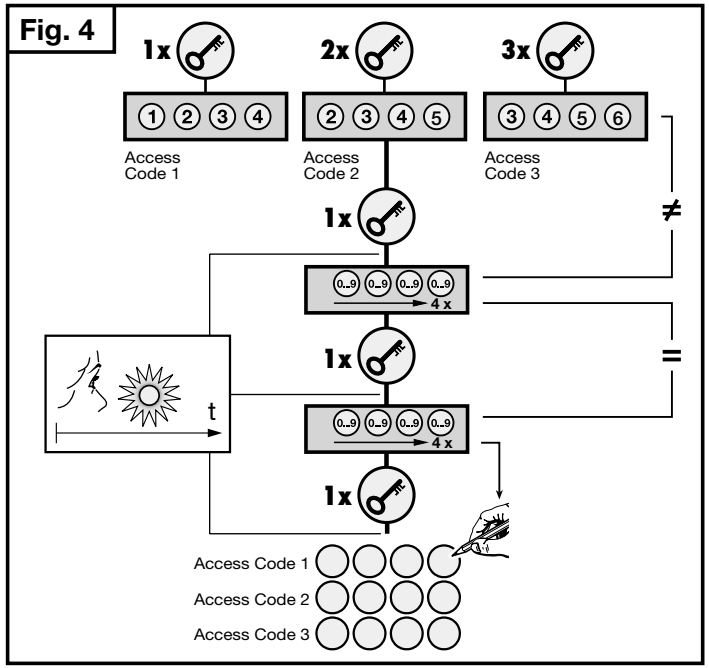

3a
t
3b
t
3c
t
3d
t
3e
t

Fig. 4


1x
2x
3x
1 2 3 4
2 3 4 5
3 4 5 6
Access Code 1
Access Code 2
Access Code 3
≠
=
0..9
4 x
t
Access Code 1
Access Code 2
Access Code 3

HÖR/Funkcodet FCT3b_USA 20.07.2004 15:26 Uhr Seite 14 humpe-933 Macintosh HD:KUNDEN:HÖR/AST:HÖR/AST/Amerika:HÖR/USA Zubehö

HÖR/Funkcodet FCT3b_USA 20.07.2004 15:26 Uhr Seite 15 humpe-933 Macintosh HD:KUNDEN:HÖR/AST:HÖR/AST/Amerika:HÖR/USA Zubehö

HÖR/Funkcodet FCT3b_USA 20.07.2004 15:26 Uhr Seite 16 humpe-933 Macintosh HD:KUNDEN:HÖR/AST:HÖR/AST/Amerika:HÖR/USA Zubehö