

# B Series Control Panel

## Installer Quick Start Guide



Use this guide to quickly install a Bosch B6512/B5512/B4512/B3512 security system. Additional information is found in the Control Panels Installation Manual.

When you see this icon, use your smart phone with a QR code reader app to view helpful videos.

### For additional training:

**Bosch YouTube channel:**

1. Scan QR code.
2. Scroll down.
3. Locate and select your region for additional videos.

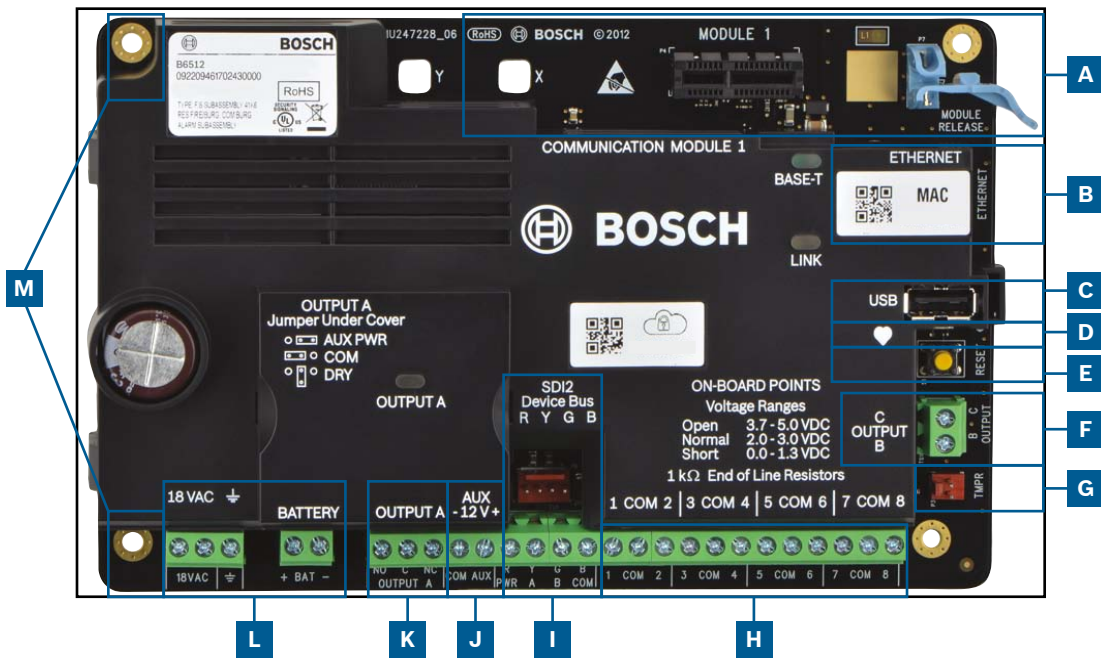
**B Series Installer's Site:**

(North America only)

**Installation sequence:**

Scan and follow these videos in sequential order to the steps listed below.

### Control panel component layout



### Control panel connection location

| Location | Item                           | Description                   | Specification                                              |
|----------|--------------------------------|-------------------------------|------------------------------------------------------------|
| A        | MODULE 1                       | Plug-in comm module           | Communication module options                               |
| B        | ETHERNET                       | Ethernet port                 | built-in on-board Ethernet connection (10Base-T/100Base-T) |
| C        | USB                            | USB port                      | USB connector (for firmware updates and RPS connection)    |
| D        | Heartbeat LED                  | Heartbeat LED                 | Slow=normal, rapid=service mode                            |
| E        | Reset                          | Reset switch                  | Hold five seconds to enter or exit service mode            |
| F        | B C                            | Outputs B(2) C(3)             | Open collector, 50mA, active low                           |
| G        | TMPR                           | Tamper                        | Optional tamper switch connector (ICP-EZTS)                |
| H        | 1 COM 2 to 7 COM 8             | Alarm inputs                  | End Of Line (EOL) resistor supervised alarm inputs         |
| I        | R Y G B                        | SDI2 bus                      | SDI2 device bus                                            |
| J        | COM AUX                        | Aux power                     | 12 VDC, 800mA                                              |
| K        | NO C NC                        | Output A(1)                   | Programmable relay output                                  |
| L        | + BAT - 18 VAC, ground, 18 VAC | Battery, Earth ground, 18 VAC | Primary/Secondary power and Earth Ground connections       |
| M        | Mounting                       | Mounting holes                | Mounting holes for control panel                           |

### Step 1 Mounting the control panel

**Bosch tips:**

- ▶ Mount the enclosure prior to mounting the control panel.
- ▶ Mount control panel into enclosure with hardware provided.

### Step 2 Installing a communication module

**Bosch tips:**

- ▶ Insert leg of module into slot marked "x."
- ▶ **Cellular:** Place antenna on top of enclosure and run cable inside, then connect to module.
- ▶ **PSTN:** Connect module to a D166 (RJ31x) jack using a D161/D162 cable.

### Step 3 Installing a keypad

**Bosch tips:**

- ▶ When installing a compatible Bosch keypad, refer to keypad installation guide for specific wiring diagrams. Basic keypad wiring is shown below.
- ▶ When installing more than one keypad, refer to keypad installation guide for unique address settings.

### Step 4 Installing expansion modules

**Bosch tips:**

- ▶ If installing more than one device that is similar, refer to the module's installation guide for address settings (for example, two of the same device).
- ▶ If installing a RADION B810 wireless receiver, use address 1 only.

### Step 5 Installing wired inputs

**Bosch tips:**

- ▶ If using a dual EOL, 2K EOL, or no EOL, refer to control panel installation guide for control panel settings.
- ▶ If using 2-wired powered devices, use a B201 or D125B.

**NOTE:** Not all modules are available in all regions.

### Step 6 Installing a bell or siren

**Bosch tips:**

- ▶ Output A can supply up to 1 A at 12 VDC when sourced from a control panel (jumper in AUX PWR position).
- ▶ Output A can support up to 3 amps at 12 VDC when using a separate power supply (jumper in DRY position).
- ▶ Output B and C are open collectors and are limited to 50 mA at 12 VDC.

### Step 7 Powering the control panel

**Bosch tips:**

- ▶ Connect wires to control panel before applying battery or AC power.
- ▶ Connect earth ground to a cold water pipe (copper) or other solid connection to ground.

### Step 8 Create panel accounts using RPS

**Bosch tips:**

- ▶ If configuring using the Installer Services Portal, go to **Step 11**.
- ▶ Install Remote Programming Software (RPS) v6.06 or later. You can download RPS from the RPS product page.
- ▶ Follow the RPS Account Assistant instructions to create new control panel accounts. The Account Assistant helps you create a new panel account.
- ▶ If RPS is not available, keypad programming is an option. Refer to keypad installation instructions.

### Step 9 Connecting the control panel using RPS

**Bosch tips:**

- ▶ Connect a computer with RPS installed. Direct RPS connections can be done through a USB connection or Ethernet connection.
- ▶ The Account Assistant automatically launches when you create a new account.
- ▶ For USB direct connection, use a B99 USB cable.





## 2 | Specifications

|                                     |                                                     |
|-------------------------------------|-----------------------------------------------------|
| Dimensions                          | 37 cm x 32 cm x 8.9 cm (14.5 in x 12.5 in x 3.5 in) |
| Color                               | White                                               |
| Compatible Lockset (optional)       | D101 Lock and Key Set                               |
| Compatible Tamper Switch (optional) | ICP-EZTS Tamper Switch<br>D110 Tamper Switch        |
| Material                            | 1.0 mm (20 gauge) cold-rolled steel                 |

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### Reading Bosch Security Systems, Inc. Product Date Codes

For Product Date Code information, refer to the Bosch Security Systems, Inc.  
Web site at: <http://www.boschsecurity.com/datecodes/>.



## Medium Control Panel Enclosure B10

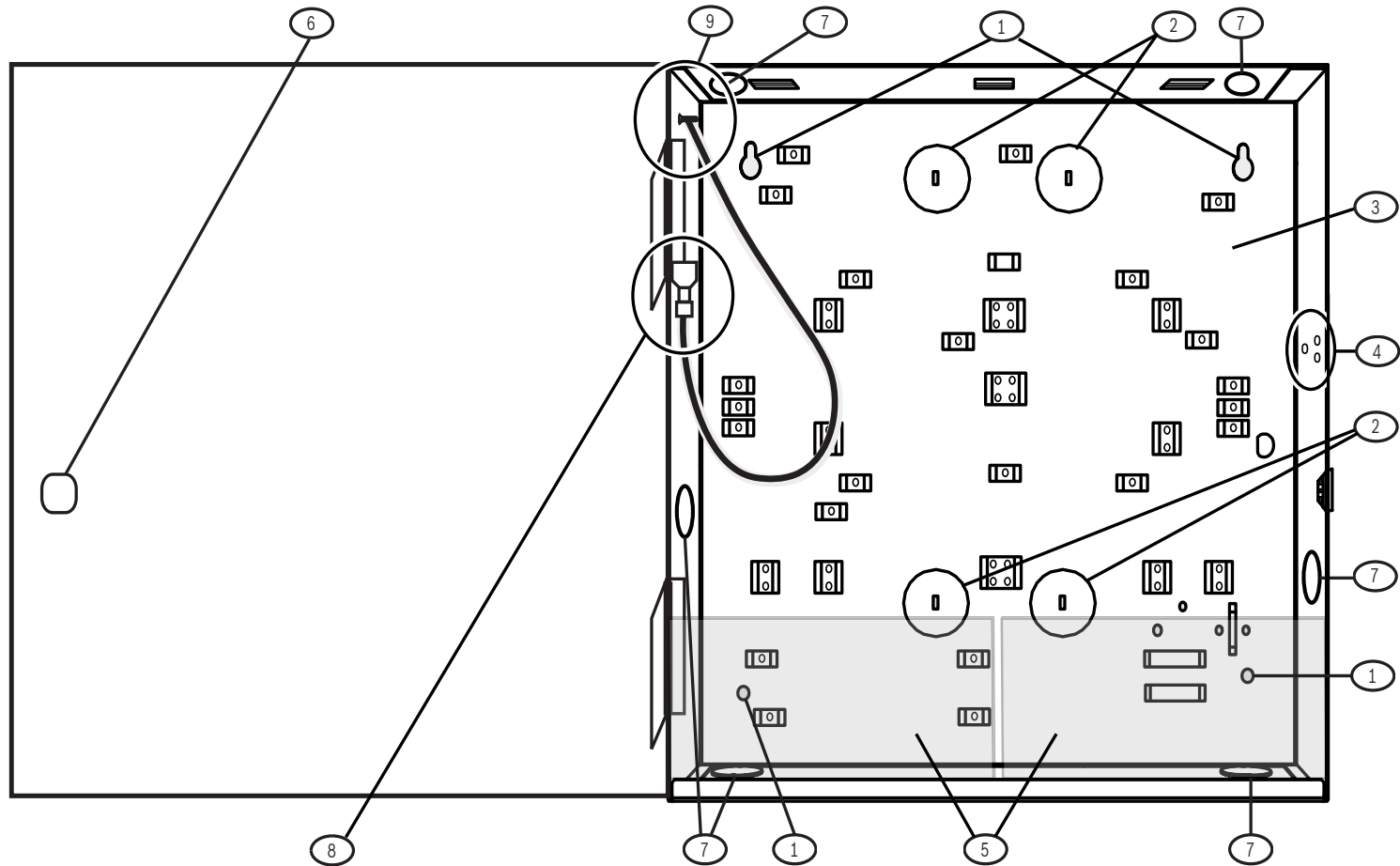


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## 1 | Overview

This enclosure is compatible with select Bosch intrusion products, and can hold up to two batteries.



| Callout | Description                                                                                  |
|---------|----------------------------------------------------------------------------------------------|
| 1       | Enclosure mounting holes (4). Bosch recommends using #10 screws and wall anchors to install. |
| 2       | Wire knockouts (4)                                                                           |
| 3       | Control panel mounting location                                                              |
| 4       | Tamper switch mounting location                                                              |
| 5       | Battery mounting location (up to 2 - 7Ah batteries)                                          |
| 6       | Lockset mounting location                                                                    |
| 7       | Conduit knockouts (6) 4 - 12.7mm (1/2in), 2 - 19.05mm (3/4 in)                               |
| 8       | Grounding (bonding) connection to enclosure door                                             |
| 9       | Grounding (bonding) connection for door only. Do not connect any other wires to this lug.    |



## 5 | Certifications

| Region | Certification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| US     | UL 365 - Police Station Connected Burglar Alarm Units and Systems<br>UL 636 - Holdup Alarm Units and Systems<br>UL 864 - Control Units and Accessories for Fire Alarm Systems (Commercial Fire)<br>UL 985 - Household Fire Warning System Units<br>UL 1023 - Household Burglar Alarm System Units<br>UL 1076 - Proprietary Burglar Alarm Units and Systems<br>UL 1610 - Central Station Burglar Alarm Units<br>FCC Part 15<br>FCC Part 68 FCC Registration Number: ESVAL00BB430<br>Ringer Eq: 0.0B |
| Canada | CAN/ULC S303 - Local Burglar Alarm Units and Systems<br>CAN/ULC S304 - Signal Receiving Centre and Premise<br>CAN/ULC S545 - Residential Fire Warning System Control<br>CAN/ULC S559 - Fire Signal Receiving Centres and Systems<br>ICES-003 - Information Technology Equipment (ITE)<br>ULC-ORD C1023 - Household Burglar Alarm System Units<br>ULC-ORD C1076 - Proprietary Burglar Alarm Units and System                                                                                        |

## 6 | Specifications

|                       |                                                                                             |
|-----------------------|---------------------------------------------------------------------------------------------|
| Dimensions            | 2 in x 3.68 in x 0.60 in<br>(50 mm x 93.5 mm x 15.25 mm)                                    |
| Voltage (operating)   | 12 VDC nominal                                                                              |
| Current (maximum)     | Standby: 24 mA<br>Alarm: 24 mA                                                              |
| Operating temperature | +32°F to +120°F (0°C to +49°C)                                                              |
| Relative humidity     | 5% to 93% at +90°F (+32°C )                                                                 |
| Communication speed   | 2400 baud maximum                                                                           |
| Compatibility         | B9512G/B9512G-E<br>B8512G/B8512G-E<br>B6512<br>B5512/B5512E<br>B4512/B4512E<br>B3512/B3512E |

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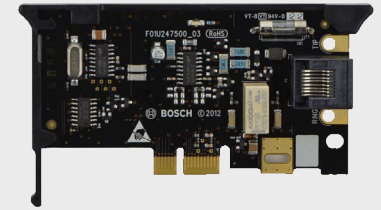
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### Plug-in Telephone Communicator B430



en Installation Guide

Bosch Security Systems, B.V.  
Torenallee 49  
5617 BA Eindhoven  
Netherlands  
[www.boschsecurity.com](http://www.boschsecurity.com)

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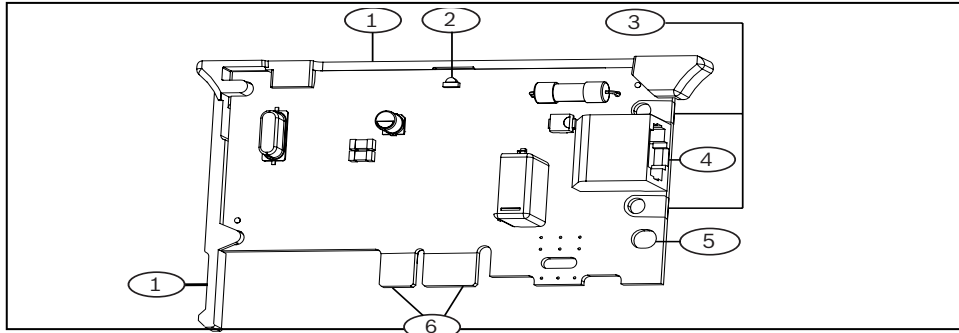
### Bosch Security Systems, Inc. product manufacturing dates

Use the serial number located on the product label and refer to the Bosch Security Systems, Inc. website at <http://www.boschsecurity.com/datecodes/>.



## 1 | Overview

The B430 connects to the control panel for communication over the PSTN (Public Switched Telephone Network).



| Callout – Description             | Callout – Description                     |
|-----------------------------------|-------------------------------------------|
| 1 – Module handle and support leg | 4 – RJ45 phone connector                  |
| 2 – Line seize/ring LED           | 5 – Plug-in module retention clip opening |
| 3 – Test phone pads               | 6 – PCB metal contacts                    |

## 2 | Install or remove the module

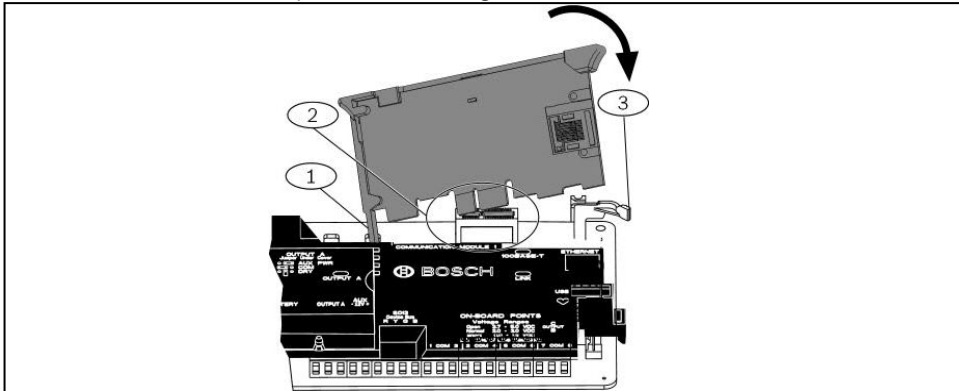


### NOTICE!

Remove all power (AC and battery) before making any connections. Failure to do so might result in personal injury and/or equipment damage.

### 2.1 | Install the module

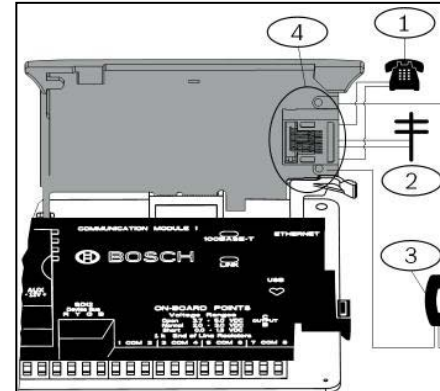
1. Insert the support leg into the support hole labeled X.
2. Align the PCB metal contacts with the on-board connector.
3. Push the module into place until it is tight.



| Callout – Description  | Callout – Description             |
|------------------------|-----------------------------------|
| 1 – Support leg        | 3 – Plug-in module retention clip |
| 2 – PCB metal contacts |                                   |

## 2.2 | Wire the module

1. Connect one end of a telephone cord to the B430.
2. Connect the other end to an RJ31X or RJ38X phone jack. The module has pads on both sides of the board to connect a telephone test set. Refer to the following illustration.



| Callout – Description            |
|----------------------------------|
| 1 – Premises telephone           |
| 2 – Incoming Telco line          |
| 3 – Installer telephone test set |
| 4 – RJ45 phone connector         |

## 2.3 | Remove the module

1. Open the retention clip.
2. Hold the top corners of the support handle.
3. Pull out the module.

## 3 | LED descriptions

Refer to the following table.

| Flash pattern  | Function    |
|----------------|-------------|
| OFF Steady<br> | Standby     |
| ON Steady<br>  | Line seize  |
| Flash<br>      | Ring detect |

## 4 | Configuration

Use Remote Programming Software (RPS) or an SDI2 keypad to program.

For programming parameter descriptions, options, and defaults refer to *RPS Help* or the *Program Entry Guide* for your control panel.