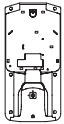# 1W0001 MOUNTING PLATE

Quick start guide, current 04/2019, part number: 0301891_a

**ABL**

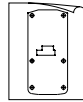Thank you for buying the 1W0001 mounting plate from ABL!

- Please read this quick start guide carefully.
- Please also consider the information and safety notices provided in the installation and operating manuals for the eMH1 Wallbox by ABL.
- Comprehensive installation and operating manuals are available for download at www.abl.de / Service.

## Components included

1 x mounting plate with pre-assembled cable storage holder and key switch

1 x drilling template

6 x countersunk screws (5 x 60 mm, T20)

3 x wafer head screws (5 x 20 mm, T20)

8 x blind plugs

6 x wall plugs (8 x 40 mm)

2 x keys

In case of missing components, please contact your local distributor.

## Installation site prerequisites

The mounting area must

- ... measure at least 482 x 226 mm.
- ... be even and able to support sufficient weight (weight including the Wallbox: ca. 7 kg).
- ... offer sufficient air circulation.
- ... be located far enough away from heat sources.
- ... be marked up at a height of 120 to 140 cm (floor to lower edge).
- ... be located at a distance of at least 50 cm in all directions from other electrical devices.
- ... offer a sufficiently dimensioned power supply cable to connect the eMH1 Wallbox (not included).

## 1W0001 preparation and installation

⚠ During the installation process, the circuit breaker for the supply cable in the domestic power distribution must be switched off.

**Tools required:** Scissors/utility knife, pencil, spirit level, T20 screwdriver, pliers, power drill, Ø8 mm drill bit

**1**  Check that the markings on the drilling template match the fixing holes in the mounting plate.

**2**  Cut into the (6) marks for the fixing points on the drilling template (tool: scissors/utility knife).

**3**  Cut out the area on the drilling template marked for the power supply cable entry (tool: scissors/utility knife).

**4**  Place the drilling template onto the mounting surface: The power supply cable must be able to pass through the center of the cutout in the drilling template. Also note the marked cut-outs for a surface-mounted power supply.

**5**  Level the drilling template and mark the fixing points on the wall (tools: pencil, spirit level).

**6**  Drill the marked fixing points (tools: power drill, Ø8 mm drill bit suitable for the substrate)

**7**  Insert the (6) wall plugs into the pre-drilled fixing points.

**8**  Pass the (1) cable with the JST connector from the cable storage holder through the central opening of the mounting plate from the rear to the front.

**9**  Place the mounting plate onto the mounting surface and pass the power supply cable through the central opening.

> ℹ️ If the power supply is surface-mounted, you must first break or cut out the respective plastic lug in the mounting plate (tool: utility knife or pliers).

**10**  Insert the (6) countersunk screws and tighten to hand-tight to fix the mounting plate to the installation site (tool: T20 screwdriver).

**11**  Seal the fixing holes in the mounting plate using the (6) blind plugs.

**12**  Insert one 5 x 20 mm wafer head screw into the upper fixing point of the mounting plate (tool: T20 screwdriver). Distance between screw head and mounting plate: 4 mm

## Installing and connecting the eMH1

An installation video is available at www.abl.de / Service / Downloads.

> ⚡ The circuit breaker in the domestic power distribution must remain switched off until step 17.

**Tools required:** Utility knife, PZ1 screwdriver, T20 screwdriver, cable cutter, wire stripper, crimping tool, Voltmeter

**1**  Open the housing cover of the Wallbox.

**2**  Loosen the (4) screws of the upper part of the housing and keep them in a safe place (tool: PZ1 screwdriver).

**3**  Remove the upper part of the housing from the housing base of the Wallbox.

**4**  Find the **EN1** JST interface on the EVCC2 circuit board.

> ℹ️ If the power supply is surface-mounted, you must first break or cut out the respective plastic lug in the mounting plate (tool: utility knife or pliers).

**5**  Remove the bridging cable from the **EN1** JST interface and keep it in a safe place: This bridging cable must be replaced in its original position if the Wallbox is to be operated without the mounting plate!

**6**  Remove the rear and side rubber grommets in the connections area of the housing base, cut crosswise and replace (tool: utility knife).

**7**  Pass the (1) JST connector through the side rubber grommet in the connections area of the housing base of the Wallbox.

**8**  Pass the power supply cable through the rear rubber grommet in the connections area of the housing base of the Wallbox.

**9**  Hang the housing base onto the wafer head screw inserted into the upper fixing point of the mounting plate.

**10**  Use two 5 x 20 mm wafer head screws to attach the lower fixing points of the housing base to the mounting plate (tool: T20 screwdriver).

**11** Plug the (1) JST connector into the **EN1** JST interface of the EVCC2 circuit board (reverse polarity protection!) and arrange the JST cable neatly inside the housing.

**12** Loosen the strain relief inside the Wallbox housing (tool: T20 screwdriver).

**13** Insert the power supply cable into the internal strain relief and tighten (tool: T20 screwdriver)

**14** Cut the power supply cable to the length required for connection to the RCCB and strip starting at the strain relief (tools: cable cutters, wire stripper).

**15** Strip the conductors of the power supply cable and fit end ferrules (tools: wire stripper, crimping tool)

**16** Insert the conductors of the power supply cable into the RCCB terminals and screw tight (tool: PZ1 screwdriver)
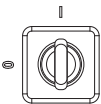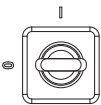
| Conductor color | RCCB terminal | Phase system |
|---|---|---|
| Brown | L1 | Single and 3-phase |
| Black | L2 | 3-phase |
| Gray | L3 | 3-phase |
| Blue | N | Single and 3-phase |
| Green-Yellow | PE | Single and 3-phase |

**17** Switch on the circuit breaker in the domestic power distribution and measure the voltage at the RCCB if required (tool: Voltmeter).

**18** Place the upper part of the housing back onto the housing base.

**19** Fix the upper part of the housing to the housing base using the screws kept for this purpose (4 screws, → step 2) and tighten to hand-tight (tool: PZ1 screwdriver).

**20** Switch on the RCCB in the Wallbox and/or the domestic power distribution. The Wallbox is starting up.

**21** Close the housing cover and lock it using the key.

The wall box is now ready for use.

## Blocking and unblocking the charging function

With the (2) keys included with the 1W0001, you can block or unblock charging procedures using the Wallbox.

| | | Key position | Description |
|---|---|---|---|
| **1** | Connect the vehicle to the Wallbox. | | The Wallbox awaits a charging request by the vehicle. |
| **2** | Blocking and unblocking the charging function using the key |  | Key in the **I** position:<br><br>The next charging procedure is unblocked and begins following a request by the vehicle. |
| | |  | Key in the **0** position:<br><br>The charging function is blocked. No charging can take place until the charging function has been unblocked. |