

INSTRUCTION

XBB Dongle(R) & XBB PowerUnit(R) - Smart lighting control for modern vehicles

Step 1

Important – please read first!

1. Check whether your vehicle is listed in the recipe list on xbb.se or in the app's main menu.
2. Follow the instructions step by step, and always start by installing your XBB Dongle(R) to ensure it is compatible with your vehicle model and equipment.
3. If your vehicle model is not listed, you can also try recipes for similar models by connecting the XBB Dongle(R).
4. Most questions that come up during installation are answered in the FAQ section — please check there first before contacting support.

Step 2

Download and install the app

1. To complete the installation, you will need the XBB Configurator app, available on the Google Play Store or the App Store.
2. Launch the app and create an account.
3. Confirm your account using the code sent to you by email (check your spam folder if you don't receive the email).



Step 3

Plug in the XBB Dongle(R)

1. The XBB Dongle(R) is plugged into the vehicle's diagnostic port, also known as the OBD2 connector.
2. This is usually located in the driver's footwell, sometimes behind a cover.
3. Insert the dongle firmly into the socket.
4. If you are using a Y-cable or extension cable, make sure the dongle is securely connected and not hanging loose.
5. The dongle must be installed in the diagnostic port for the auxiliary lighting to function.

Step 4

Install the XBB Dongle(R) in the app

1. Open the app and click on "Search for XBB Device."
2. Select the displayed XBB Dongle(R) to continue the installation.
3. Perform a firmware update if recommended.
4. If no connection is possible after the update, briefly remove the dongle from the socket and plug it back in.
5. Note: The dongle is only visible for 10 minutes after being plugged in. After that, it must be reinserted or connected via "My Devices" → "Save Device to My List" → "Pair with Device" in the app.

Step 5

Select a recipe

1. A recipe is a specific software configuration for your vehicle model and its equipment (e.g. model year, headlights, software version).
2. New dongles come pre-installed with an internal test recipe (Quality Control) — delete this first.
3. Go to "Settings" and select "Delete recipe."
4. Then click on "Change recipe."
5. You can change the recipe as often as you like.
6. Now select a suitable recipe based on your vehicle.

Step 6

Test the recipe

1. Check whether the desired signals (e.g. "HIGHBEAM") are detected and displayed in the app.
2. If not, select a different recipe and test again.
3. Important: After selecting a recipe, lock the vehicle — "SYSTEM_ACTIVE" must appear in the app and start counting down.
4. Do not remain inside the vehicle during the test if the signal does not turn red, as this may lead to battery drain.

Step 7

Install the lighting on the vehicle

1. If the selected recipe does not work, return to step 1.
2. Mount the light and route the cables to the planned position of the PowerUnit(R).
3. Note: For pre-assembled wiring kits, check all cables in advance.
4. Mount the PowerUnit(R) vertically, protected from heat and moisture.
5. Note: For loads above 15 A, a relay must be used.
6. Various wiring diagrams are available online.
7. Connect the positive cable as close as possible to the battery or power source.
8. Ensure the correct cable cross-section to prevent cable fires.
9. Standard cable lugs are usually rated for 15–24 A.
10. Standard Power Timer connectors are recommended.

Step 8

Install the PowerUnit(R)

1. Up to 4 PowerUnits(R) can be connected to one dongle (alternatively: 3 PowerUnits(R) + 1 Smart Button).
2. One PowerUnit(R) can switch up to 15 A (180 W).
3. Note: Also check pre-assembled wiring kits here (especially the ground connection).
4. Mount the PowerUnit(R) vertically, protected from heat and moisture.
5. Place it as close as possible to the firewall to minimize the distance to the dongle.

Step 9

Add the PowerUnit(R) in the app

1. The installed PowerUnit(R) must be added and configured in the app.
2. Open the app.
3. If the device has not been connected for more than 10 minutes, briefly remove the dongle and plug it back in.
4. In the app, tap the plus icon → “Add XBB PowerUnit(R)” → select the device → “Settings.”
5. If no device appears, check the wiring and fuse.
6. Each PowerUnit(R) has two outputs — select the corresponding function for each.
7. Use “Force On” to check whether the wiring is correct.
8. This can also be used to verify that the lighting is assigned to the correct output.
9. Output 1: max. 15 A (180 W), Output 2: max. 5 A (60 W).
10. For high beam control: select the HIGHBEAM signal.
11. For position light: use IGNITION or POSITIONLIGHT.
12. Always click “Save” after making your selection.
13. Note: The use of position lights may be legally restricted depending on the country.

Step 10

Function test and completion

1. Some vehicles require a motion signal for detection — the dongle remains in sleep mode until movement is detected.
2. Automatic high beam may only function in darkness.
3. Perform a complete function test.
4. Important: Check the "SYSTEM_ACTIVE" signal in the app (see step 6.3).

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