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› EASYGUARD ESW309B-N-BE-B Smart Key System Instruction Manual

## EASYGUARD ESW309B-N-BE-B

# EASYGUARD Smart Key System Instruction Manual

**MODEL: ESW309B-N-BE-B**

For 2014+ Mercedes Benz S Class W222, C Class W205, GLC X253 with Turn Key Start Only

## 1. Product Overview

The EASYGUARD ESW309B-N-BE-B Smart Key System is designed to upgrade your Mercedes Benz vehicle with enhanced keyless entry and security features. This system is specifically compatible with 2014 and later Mercedes Benz FBS4 cars that feature a turn-key start ignition. It is not compatible with vehicles equipped with a factory OEM push-start button.

The system provides functions similar to your original car key, including remote lock/unlock and trunk release. It also supports power window up/down functionality if your original car key has this feature. A key security feature ensures the car cannot be started if the key is not detected inside the vehicle.

**EASYGUARD**

**ESW309B-N**

**Smart Key fit for Benz 2014+ FBS4 car with turn key start only**



Figure 1: EASYGUARD ESW309B-N Smart Key System



Figure 2: Compatibility note for push start vehicles

## 2. Package Contents

Please verify that all items are present in your package:

- Control module
- Key fobs (2 pieces)
- Wire harness
- Alarm antenna
- Sponge pad



## Products accessories



Key fobs



Control module



Alarm antenna



Plug play wire harness & sponge pad

Figure 3: Included Product Accessories

### 3. Compatibility

This smart key system is designed for specific Mercedes Benz models and ignition types:

- **Compatible Vehicles:** 2014+ Mercedes Benz FBS4 S Class W222, C Class W205, GLC X253.
- **Ignition Type:** Turn Key Start only.
- **Original Key Fob Style:** Your car's factory key fobs should resemble the BE or BE4 styles shown in the product images.
- **Incompatible:** Not suitable for Mercedes Benz cars with factory OEM push start buttons.

# Fit for Benz FBS4 (2014 year or later) with turn the key start version only, not fit for Benz cars with factory OEM push start button

## How to know your benz car is FBS4 or not?

Generally, you can judge from below model list:

*For most benz cars from 2014 to present, such as*

*E class from 2014 to present W212 & W213*

*W212 from Apr 2013 to present*

*W218 from Sep 2014 to present*

*W205, W217, W218, W222, W231 from Apr 2015 to present*

*C class from 2014 to present W205*

*S class from 2014 to present W222*


*W166, W207, V212 from July 2013 to present*


*W117 W156 from Nov 2014 to present*





If your car is with factory OEM push start button, please buy ESW309C-N series or ESW309C series

Figure 4: Identifying FBS4 Turn Key Start Ignition

 No need to solder the car key's PCB, plug and play installation

 Avoid the car door locked automatically when the key is in the car

 Avoid automatically open the trunk or window falling down issue

 Avoid the issue "unable to detect the car key"

### Available Key fobs styles

Each kit default with 2 key fobs, please remember to select your prefer key fobs styles when buying!

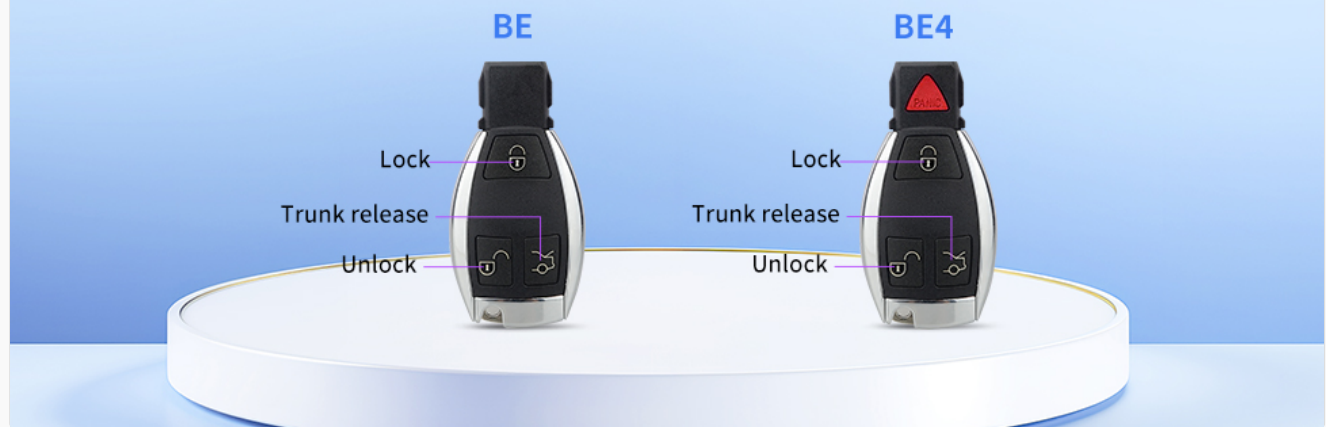


Figure 5: Compatible Original Key Fob Styles (BE and BE4)

## 4. Installation Instructions

This system requires professional installation by a trained alarm installer. The installation is plug-and-play, meaning no soldering of the car ignition cylinder or the factory key's PCB is required. However, you will need to uninstall the ignition cylinder and disassemble your car's factory key.

### 4.1. Preparing the Vehicle

1. **Access the Trunk Module:** Remove the trunk boards to access the KG module located on the left side of the trunk.
2. **Connect to KG Module:** Unplug the original KG module connector and connect it to the provided product harness. This is a plug-and-play connection, avoiding the need for cutting or welding wires.

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Video 1: General Installation Steps (Trunk Module Connection). This video demonstrates removing trunk boards, unplugging the KG module, and connecting the product harness. It highlights the plug-and-play nature of the connection.

3. **Remove Rear Seat:** Pull the buckle on the bottom of the rear seat to remove it.
4. **Remove Door Sill Strip:** Carefully remove the door sill strip to route wiring.

### 4.2. Routing Wires

5. **Route Adapter Cable:** Thread the adapter cable for the connection module through the gap on the left side of the trunk. An iron wire can be used to assist in threading. Secure the plug onto the iron wire with adhesive tape for easier pulling.
6. **Route Line to Driver's Cab:** Route the line along the threshold to the driver's cab.

### 4.3. Antenna Installation

7. **Front PKE Antenna:** Install the front PKE antenna along the edge strip near the windshield in the driver's cab.
8. **Rear PKE Antenna:** Install the rear PKE antenna in the rear of the vehicle, routing its line to the driver's cab

as well.

9. **High-Frequency Antenna:** Install the high-frequency antenna inside the triangle panel.

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Video 2: PKE Antenna Installation. This video demonstrates the placement of the front PKE antenna along the windshield edge and routing the wire to the driver's cab.

#### 4.4. Key Fob PCB Installation

One working factory key's PCB is required to be placed in the control module during installation.

10. **Disassemble Original Key Fob:** Carefully take out the PCB from your original car key fob.
11. **Install PCB into Module:** Install the original car key PCB flat onto the card slot within the main control module. Ensure it is securely seated.
12. **Reinstall Pressure Plate:** Install the pressure plate back onto the module to secure the PCB.

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Video 3: Removing the BE2 Key PCB. This video shows how to disassemble a BE2 key fob to extract its PCB.

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Video 4: How to Remove the BE Key PCB. This video demonstrates the process of disassembling a BE key fob to access and remove its internal PCB.

#### 4.5. Final Steps

13. **Remove FBS4 Ignition Lock:** This step is crucial for the system's functionality.

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Video 5: How to Remove the FBS4 Ignition Lock. This video demonstrates the removal of the FBS4 ignition lock.

14. **Secure Main Unit:** After organizing the lines, ensure the main unit indicator light is facing up. The main unit should be glued to the steps under the seat near the armrest box.
15. **Programming:** A new programming procedure is required after completing all wiring connections. Refer to the specific programming method provided with your product or consult a professional installer.

## 5. Operating Instructions

The EASYGUARD Smart Key System provides convenient remote control over your vehicle's functions:

- **Remote Lock/Unlock:** Use the dedicated buttons on the new key fobs to remotely lock or unlock your vehicle.
- **Trunk Release:** Press the trunk release button on the key fob to open the vehicle's trunk.
- **Power Window Control:** If your original car key supports it, the new key fobs will also allow you to remotely roll up or down your power windows.
- **Starting the Car:** The car is started using the same turn-key method as with your factory OEM key fobs.
- **Security Feature:** The system incorporates a high-security feature where the car cannot be started if the key is not detected inside the vehicle.

## —• Function of remote control



Figure 6: Remote Control Functions

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**With same car factory key function such as remote lock/unlock, trunk release & power window up & down (optional, only available for car factory key has this feature)**



Figure 7: Remote Control Capabilities

The remote working range is approximately 20-30 meters, depending on environmental factors.



Figure 8: Remote Control Range

## 6. Maintenance

To ensure the longevity and optimal performance of your EASYGUARD Smart Key System, consider the following maintenance tips:

- **Keep Dry:** Protect key fobs and the control module from moisture and extreme temperatures.
- **Battery Replacement:** If remote range decreases or buttons become unresponsive, the key fob battery may need replacement. Refer to the key fob's specific instructions for battery type and replacement procedure.
- **Professional Checks:** Periodically have the system checked by a professional installer to ensure all connections are secure and the system is functioning correctly.

## 7. Troubleshooting

If you encounter issues with your smart key system, try the following troubleshooting steps:

- **Remote Not Responding:** Check the key fob battery. Ensure you are within the 20-30 meter operating range.
- **Car Not Starting:** Verify that the key fob is inside the vehicle. Ensure the original key's PCB is correctly installed in the control module. Check all wiring connections.
- **Intermittent Functionality:** This could indicate loose connections or interference. Recheck all installed components and wiring.
- **After Installation Issues:** Ensure the required programming step has been completed correctly.

If problems persist after attempting these steps, please contact a professional installer or EASYGUARD customer support for assistance.

## 8. Specifications

Feature	Specification
Brand	EASYGUARD
Model Number	ESW309B-N-BE-B
Compatible Devices	2014+ Mercedes Benz FBS4 S class W222, C class W205, GLC X253 with Turn Key Start only
Maximum Range	30 Meters
Remote Control Included?	Yes
Built-In Media	Control module, key fobs, wire harness
Item Weight	0.5 Kilograms

## 9. Warranty and Support

The EASYGUARD Smart Key System comes with a **1-year warranty** from the manufacturer, [ieasyguard.com](http://ieasyguard.com).

For technical support, installation guidance, or warranty claims, please contact EASYGUARD customer service through their official channels or the retailer where the product was purchased.

It is highly recommended to have this product installed by a certified professional to ensure proper functionality and to maintain warranty validity.