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SHZSR 8" Screen for Bosch Systems

SHZSR Wireless CarPlay & Android Auto Smart Box

INSTRUCTION MANUAL FOR LAND ROVER/JAGUAR (8" BOSCH SYSTEMS)

1. Product Overview

The SHZSR Wireless CarPlay & Android Auto Smart Box is a retrofit kit designed to integrate advanced smartphone connectivity into compatible Land Rover and Jaguar vehicles. This decoder box enhances your vehicle's infotainment system by adding wireless CarPlay, Android Auto, screen mirroring, and other convenient functions while retaining the original car system.

2. Compatibility

This wireless CarPlay retrofit kit decoder is compatible with the following vehicles equipped with 8-inch screens and Bosch systems:

- Land Rover Range Rover (2013-2016)
- Land Rover Range Rover Evoque (2011-2015)
- Land Rover Discovery 4 (2012-2016)
- Jaguar XE/XF/XJL/F-TYPE (2012-2019)

Important: This product is only compatible with Bosch systems. To differentiate between Bosch and Harman systems, observe the time display position on your car's screen. Bosch systems typically display the time on the right, while Harman systems display it in the middle. Please refer to the image below for visual guidance.

How do I differentiate between systems?



- ✓ Difference in model years, Bosch much before 2018
- ✓ Difference in time display, as shown
- ✓ Temporarily not compatible with 10.25 inch Harman system screen, please wait for update!

Figure 2.1: Visual guide for distinguishing Bosch (time on right) from Harman (time in middle) systems.

3. Features

The Smart Box offers a range of features to enhance your driving experience:

- **Wireless/Wired CarPlay & Android Auto:** Seamless integration with your smartphone for navigation, music, calls, and messages.
- **Mirror Link:** Display your phone's screen directly on the car's display.
- **Voice Control:** Works with Siri and Google Assistant for hands-free operation.
- **Multimedia Playback:** Supports USB drive for music and video playback.
- **Camera Support:** Compatible with Front/Right/Left/360 cameras and Reverse Camera.
- **AHD Video Decoding:** High-definition video decoding for clear visuals.
- **DSP Audio Decoding:** Digital Signal Processing for enhanced audio quality.
- **Fast Charging:** Integrated fast charging capability.

Features you get after installation



Carplay



Android Auto



Mirroring



Media



Front/Right/
Left/360

AHD

AHD Video
Decoding



DSP digital
audio decoding



Fast charging

Figure 3.1: Overview of product features.

4. Package Contents

The package includes the following components:

- CarPlay Smart Box
- LVDS Harness
- Additional wiring harnesses (USB, microphone, GPS antenna, 4G antenna, etc.)

5. Installation Guide

Installation of the SHZSR Wireless CarPlay & Android Auto Smart Box requires careful disassembly and reassembly of vehicle interior components. It is recommended to use plastic pry tools to avoid damaging trim pieces. The process involves removing the factory radio screen, transferring internal circuit boards, and connecting new wiring harnesses.

5.1. Disassembly of Factory Unit

1. **Remove Trim Piece:** Carefully pull the trim piece surrounding the factory radio towards you. It is held by pressure clips.
2. **Remove Radio Frame:** Unscrew the four T20 Torx bolts securing the radio frame. Once bolts are removed, the frame can be pulled out.
3. **Remove Side Buttons:** Unscrew the four T20 Torx bolts holding the side button panels. Disconnect their plugs. These buttons will not be reused as the new unit is larger and touch-screen operated.
4. **Remove Factory Radio:** Unscrew the four T20 Torx bolts holding the factory radio in place. Carefully pull the radio out and disconnect all plugs from its back. Place the radio on a microfiber cloth to prevent scratches.
5. **Remove Climate Control:** Pull the aluminum trim pieces on either side of the climate control unit towards you. They are held by pressure clips. Disconnect the plug from the climate control unit.
6. **Remove Aftermarket Bracket:** Unscrew the two 20mm bolts holding the aftermarket bracket for the LCD screen. This bracket will be replaced.

7. **Remove Internal Circuit Boards:** The factory radio contains internal circuit boards that need to be transferred to the new unit.

- Unscrew the T9 Torx bolts (approximately 11) securing the main circuit board.
- Carefully lift the main circuit board. Note the ribbon cable connecting it to the lower board.
- To disconnect the ribbon cable, gently pry up the small black piece on the connector. Ensure the blue side of the ribbon faces up when reattaching.
- Unscrew the T10 Torx bolts (2 larger ones) securing the lower circuit board.
- Carefully separate the two circuit boards, noting how they click into each other.

5.2. Assembly of New Unit

1. **Transfer Circuit Boards:** Transfer the factory circuit boards into the new unit's casing. Ensure all holes align and secure them with the appropriate T9 and T10 Torx bolts.
2. **Connect Ribbon Cable:** Carefully connect the ribbon cable, ensuring the blue side faces up and the black tab is pushed down to secure it.
3. **Attach Wiring Harnesses:** Connect the provided wiring harnesses to the new unit. All harnesses are color-matched for easy connection.
4. **Connect GPS and 4G Antennas:** Screw in the GPS antenna and the 4G antenna to their designated ports on the new unit.
5. **Connect Microphone:** Plug the microphone into its designated port on the new unit. Route the microphone cable through the A-pillar and mount the microphone in a suitable location.
6. **Connect Factory Harnesses:** Plug the factory radio harness into the new unit's corresponding port.
7. **Test Functionality:** Before fully reassembling, temporarily place the new unit in the dashboard and power on the vehicle to test all functions (audio, CarPlay, Android Auto, climate control, etc.).
8. **Reassemble:** Once all functions are verified, carefully reassemble all components in reverse order of disassembly.

5.3. Installation Video Guide

Your browser does not support the video tag.

Video 5.1: Detailed installation guide for the radio unit.

6. Setup

6.1. CarPlay Connection Settings

To connect your iPhone to CarPlay:

1. Press the **Navigation/NAV** button on your car's console to enter the AUTOABC system.
2. On the AUTOABC system screen, select **CarPlay**.
3. On your iPhone, go to **Settings > Bluetooth** and select the device named "Land Rover Carplay_62c1" (or similar).
4. Confirm pairing on both your iPhone and the car screen. CarPlay should now connect.

6.2. AUX Audio Settings

To ensure audio plays through your car's speakers:

1. From the car's home menu, navigate to **Audio/Video**.
2. Select **Source** and then choose **AUX**.
3. Ensure "Auxiliary selected" is displayed.

6.3. AUTOABC System Setup Bluetooth Audio

To set up Bluetooth audio for the AUTOABC system:

1. From the AUTOABC system screen, select **Settings** (gear icon).
2. Go to **Bluetooth** settings.
3. On your iPhone, go to **Settings > Bluetooth** and search for available devices.
4. On the car screen, select **Search new** and then **Device to vehicle**.
5. Pair your iPhone with the AUTOABC device. Enter the PIN if prompted.
6. Once paired, select **Bluetooth** as the audio source from the AUTOABC system's media options.

6.4. AirPlay Connection Settings

To connect your iPhone via AirPlay (screen mirroring):

1. If your phone is already connected to CarPlay, disconnect it first.
2. On the AUTOABC system screen, select **Mirroring**.
3. Ensure **iPhone** is selected for mirroring.
4. On your iPhone, go to **Settings > Wi-Fi** and connect to the wireless network displayed on the car screen (e.g., "SSID:Land Rover Carplay_62c1_air"). The default WiFi password is **88888888**.
5. Once connected to the WiFi, open your iPhone's Control Center and select **Screen Mirroring**. Choose the corresponding device name.

6.5. Setup and Connection Video Guide

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Video 6.1: Guide for CarPlay connection, AUX audio settings, Bluetooth audio setup, and AirPlay connection.

7. Operating Instructions

After successful installation and setup, you can operate the Smart Box using your car's original steering wheel controls and radio buttons. The new 8-inch touch screen provides an intuitive interface for all integrated functions.

- **Access CarPlay/Android Auto:** Navigate to the CarPlay or Android Auto icon on the main screen to launch the respective interface.
- **Navigation:** Use your preferred navigation app (e.g., Apple Maps, Google Maps, Waze) directly on the car screen.
- **Music & Media:** Play music from streaming services (Spotify, Apple Music) or USB drives.
- **Phone Calls:** Make and receive calls using the integrated phone function.
- **Voice Commands:** Activate Siri or Google Assistant for voice-controlled tasks.

7.1. Operating Demonstration Video

Your browser does not support the video tag.

Video 7.1: Demonstration of the Wireless CarPlay Receiver SmartBox in operation.

8. Troubleshooting

If you encounter issues during installation or operation:

- **No Signal/Functionality:** Double-check all wiring connections, especially the ribbon cables and main harnesses. Ensure they are securely seated and correctly oriented.
- **Audio Issues:** Verify that AUX is selected as the audio source in your car's original system settings. Ensure Bluetooth audio is correctly paired and selected in the AUTOABC system.

- **CarPlay/Android Auto Connection Failure:** Ensure your phone's Bluetooth and Wi-Fi are enabled and correctly paired/connected to the device. Try restarting both your phone and the car's infotainment system.
- **Incorrect Display/Interface:** Access the vehicle settings within the new unit's system and adjust the "Screen Gen" settings to match your specific vehicle model for optimal display.

9. Specifications

- **Item Weight:** 2 pounds
- **Package Dimensions:** 8 x 6 x 3.5 inches
- **Display Size:** 8 Inches
- **Connectivity Technology:** Mirror Link, Wireless Android Auto, Wireless CarPlay
- **Controller Type:** CarPlay Boards
- **Special Feature:** Upgrade Android auto, Upgrade Carplay
- **Compatible Devices:** Smartphone
- **Connector Type:** RCA
- **Audio Output Mode:** Stereo
- **Surround Sound Channel Configuration:** 5.1
- **Color:** Black

10. Warranty & Support

The SHZSR Wireless CarPlay & Android Auto Smart Box comes with a **1-Year Warranty**. For any technical assistance or support, please refer to the contact information provided with your purchase or visit the SHZSR Store on Amazon.