FUSION

screen replacement

Custom-Fit Car Stereo for BMW X5 Series (E70) with CIC System 2010-2013



VINLAND

Overview

The Vinland **VBMX54L12B8** car stereo features a 12.3-inch HD touchscreen and supports wireless Apple CarPlay and Android Auto.
This system is specifically designed for 2010-2013 BMW X5 E70/X6 E71 models equipped with the CIC System, and is intended to retain the original factory vehicle functions. The availability of retained functions may vary depending on the vehicle's configuration.

Needed Tools

Tools needed for installation:
Plastic pry tools, socket wrench (7mm or 10mm, depending on vehicle configuration), screwdriver, electrical tape, scissors, wrench, screw tray/box, and cable ties.

Important Notes:

- Before installation, disconnect the vehicle's negative battery terminal to prevent electrical short circuits or damage.
- It is recommended to update the firmware after installation to ensure optimal performance.
- For the latest installation instructions or additional assistance, download the latest manual from our website or contact Vinland customer support.

Package Contents


Power Harness


Dash Bezel


Car Stereo


CAN Bus Decoder


Chime Speaker


GPS Antenna


4G Antenna


USB to 4P

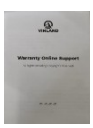

USB to 6P


RCA Cable


Rear-view Camera Cable


9.84 FT/ 3M Lavalier Microphone


Online Resources Quick Guide


Product Care Online Support

1. Product Appearance

This section describes the layout and connection ports of the **VBMX54L12B8** car stereo to assist with proper installation.



① **Power Port:** Supplies power to the car stereo via the vehicle harness.
② **AV / Audio Input & Output Port:** Supports SUB, CVBS-IN, MIC, AUX-IN, SPDIF-OUT, RCA, AMP, and SIM connections.
③ **Reserved Port:** Currently not in use.
④ **CAN Bus Decoder Port:** Connects to the CAN Bus decoder to retain factory vehicle functions.
⑤ **Phone Link (USB):** Supports smartphone connection, hands-free calling, and multimedia projection.
⑥ **External Storage (USB):** Supports USB storage devices and accessories.
⑦ **Rear View Camera Input:** Connects to the rear-view camera.
⑧ **Wi-Fi Antenna Port:** Connects to the Wi-Fi antenna.
⑨ **GPS Antenna Port:** Connects to the GPS antenna.
⑩ **4G Antenna Port:** Connects to the 4G LTE antenna.

2. Dash Disassembly

1.Switch off the vehicle's ignition.



2.Using a plastic pry tool, remove the air vent assembly.



3.Disconnect all wiring connectors from the rear of the air vent.



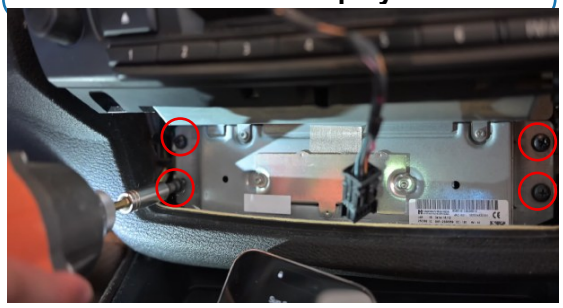
4.Remove the two screws, then disconnect the wiring connectors and remove the control panel.



5.Using a plastic pry tool, release the clips, then remove the control panel and disconnect the connectors.



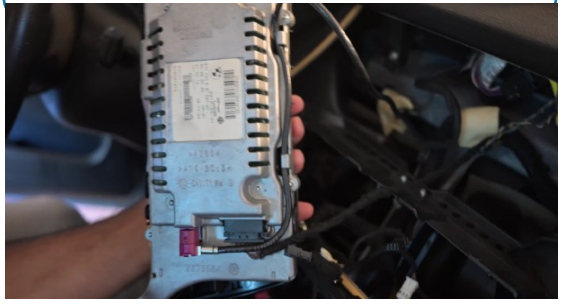
6.Remove the four screws, then disconnect the connectors and remove the CD player.



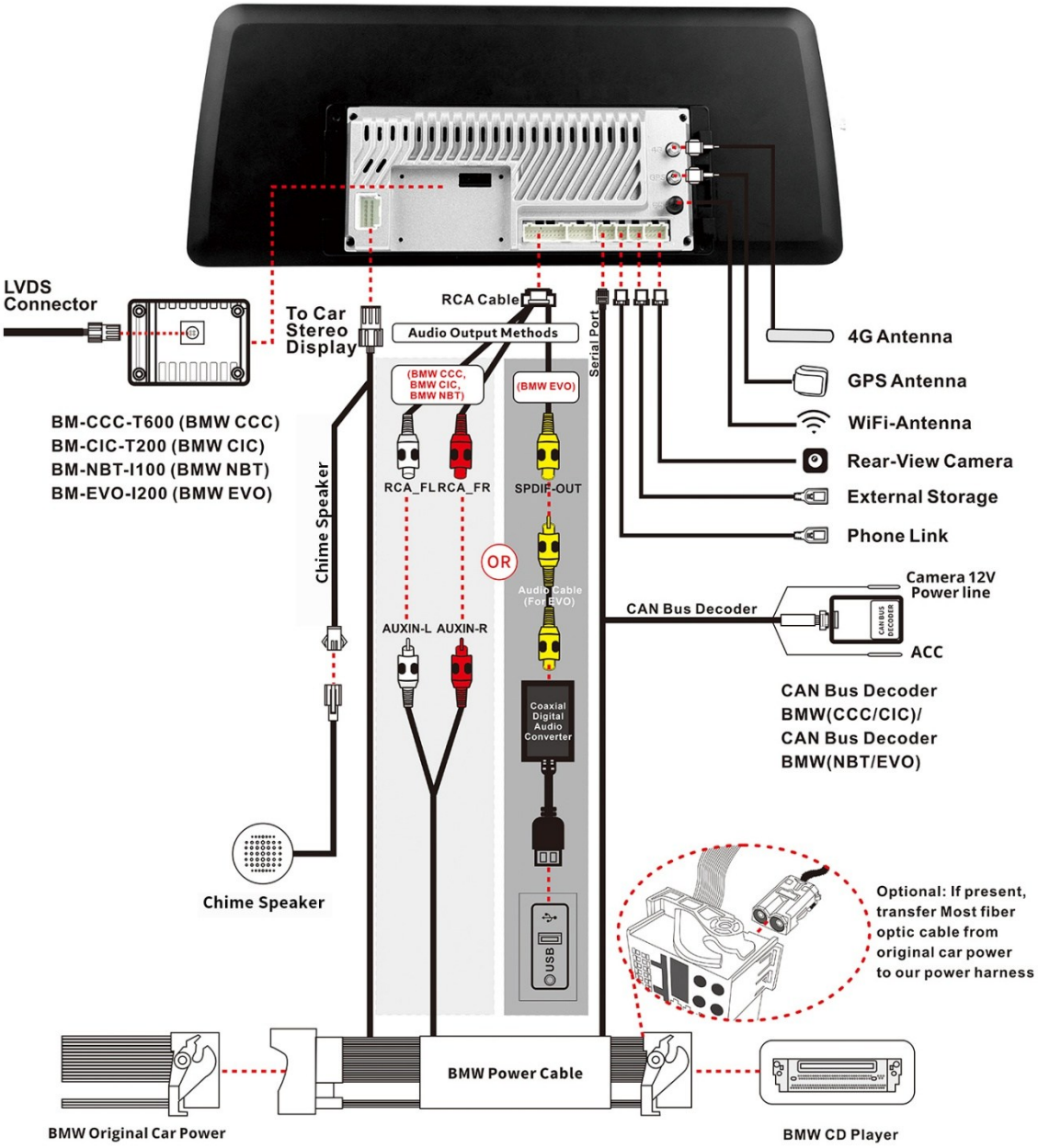
7.Remove the two mounting screws securing the factory display.



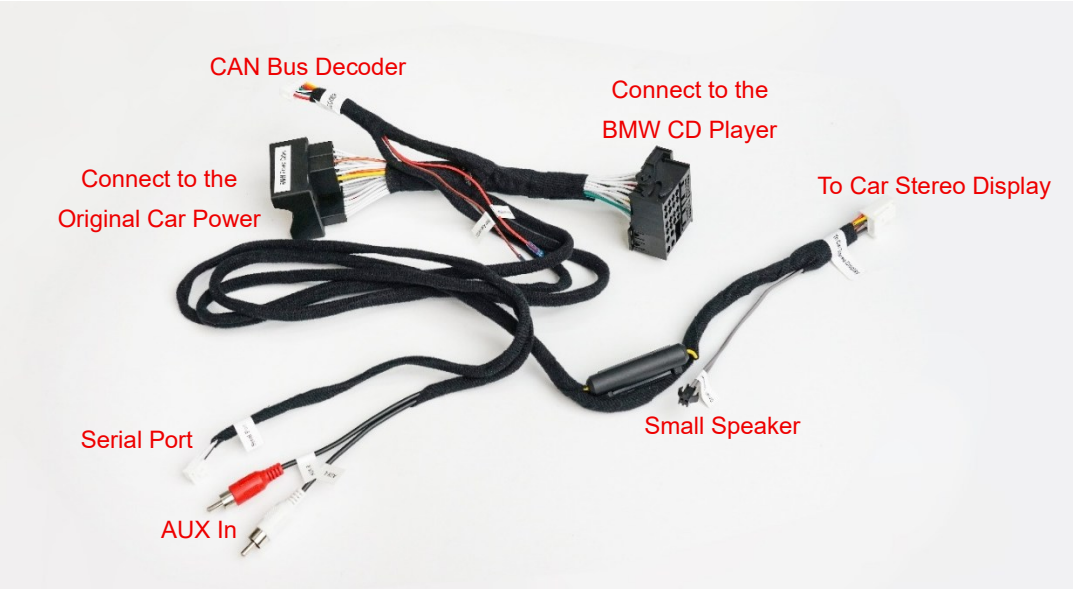
8.Remove the factory display and disconnect the wiring connectors from its rear.



3. Connection Diagram



Routing the Power Harness



Step 1 – MOST Fiber Optic Connection (If Applicable)

If the original vehicle power harness includes a MOST fiber optic cable, remove it and insert it into the fiber optic interface on the new power cable harness.

(Skip this step if the vehicle is not equipped with a MOST fiber optic system.)

Step 2 – Power Harness Connection

Connect the black socket of the BMW power cable to the original vehicle power harness. Then, plug the other end of the BMW power cable into the BMW CD player.

Step 3 – CAN Bus Connection

Plug the CAN Bus connector on the power cable into the CAN Bus decoder. Then, insert the serial port connector of the power harness into the corresponding port on the rear of the car stereo.

Step 4 – Speaker Connection

Connect the small speaker connector on the power cable harness to the supplied external speaker.

Step 5 – Audio Connection (AUX)

For BMW vehicles equipped with CIC, CCC, or NBT systems, connect the AUX IN L and AUX IN R connectors on the BMW power cable to the RCA-FL and RCA-FR connectors on the RCA cable connected to the car stereo.

.

Step 6 – Display Connection

Plug the connector on the power cable harness labeled “To Car Stereo Display” into the corresponding port on the car stereo.

Step 7 – LVDS Connection

Connect the original vehicle LVDS cable to the LVDS adapter module at the rear of the car stereo. Ensure the vehicle is powered off before connecting the LVDS cable.

Step 8 – Peripheral Connections

Refer to the Product Appearance section and connect the following components to their corresponding ports on the rear of the car stereo: 4G Antenna, GPS Antenna, Wi-Fi Antenna, Rear-View Camera, External Storage (USB), Phone Link (USB), RCA Cable, LVDS Adapter Module.

4. Assembly Process

Note: After completing all wiring connections, start the vehicle and verify that all functions operate correctly. Once confirmed, reinstall all removed components in their original positions.

1.Install the mounting bracket into the center console and secure it with screws.



2.Align the four clips on the rear of the stereo with the bracket slots, then press down gently to secure it.



3. Reinstall the climate control module into the center console.

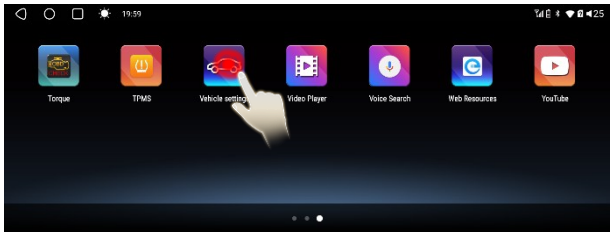


4. Reinstall the control panel and all other components in their original locations.

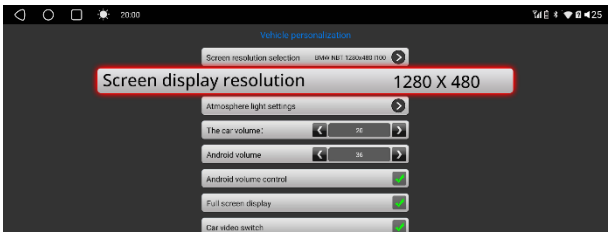


5. Relevant Settings

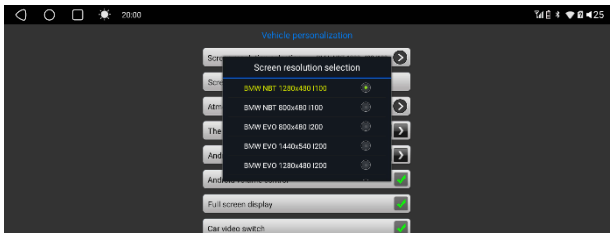
● Setting the Screen Resolution



1. Tap “ ” > Tap “ ”



2. Refer to the “Screen display resolution”

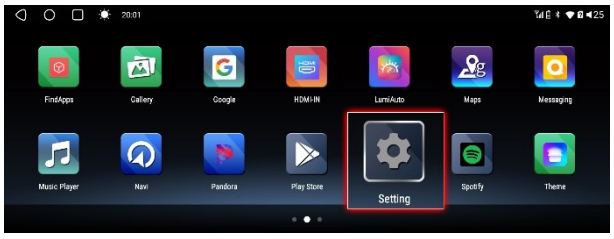


3. Under Screen Display Resolution, select the appropriate option based on your current iDrive system.

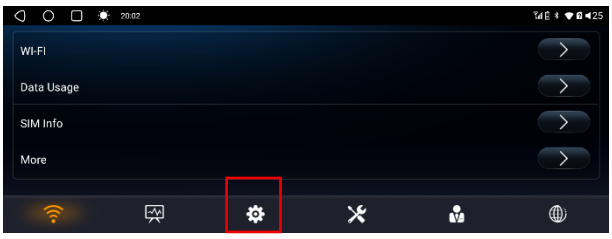
● Setup Camera

If your vehicle is already equipped with an original backup camera, turn off the Local Reverse Switch to enable the factory camera.

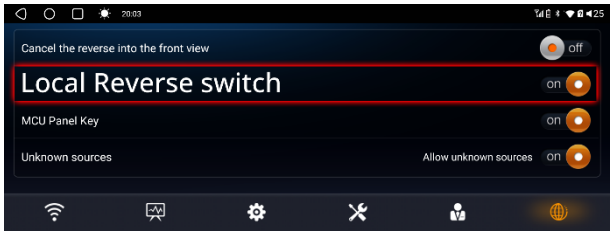
Note: If you install our aftermarket backup camera, you do not need to change this setting.



1. Tap the icon “ ”



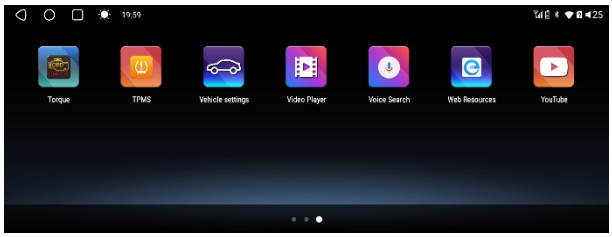
2. Tap the icon “ ”



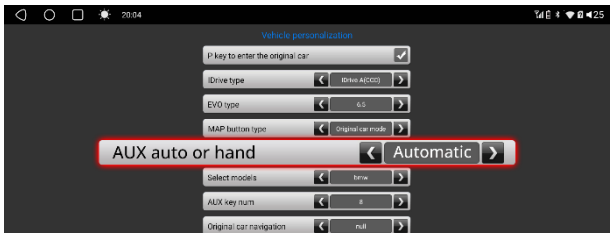
3.Locate the “Local Reverse Switch” option and turn it off to activate the factory backup camera.

- **Setup Sound**

To ensure the Android system audio is played through your car's original speakers, please adjust the sound settings as described below.



1. Tap the icon " ", then tap " " on the next interface.



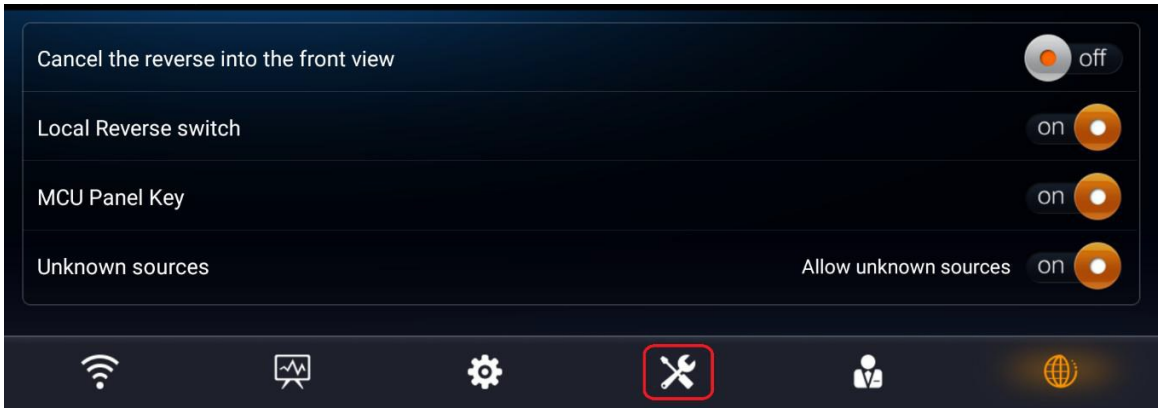
2. Find the "AUX Auto or Hand" option and set it to Automatic.

6. Troubleshooting

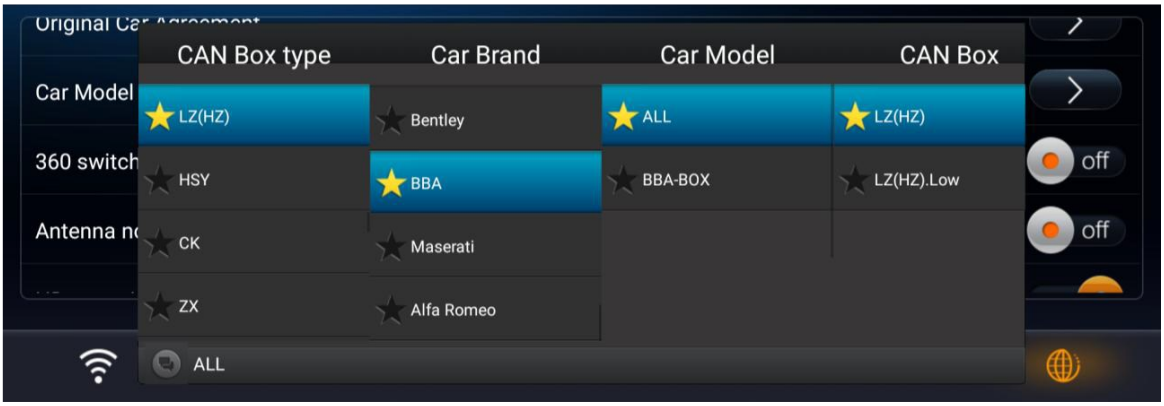
Before contacting technical support, please consult the troubleshooting table below to quickly resolve common issues.

No.	Problem Description	Solution
1	When switching to the original system, a prompt appears stating “No Appropriate Protocol.”	Reset the vehicle protocol in the Maintenance Settings.

1) Tap the **Maintenance Settings icon**, enter the password 3368, and then tap OK to access the Maintenance menu.



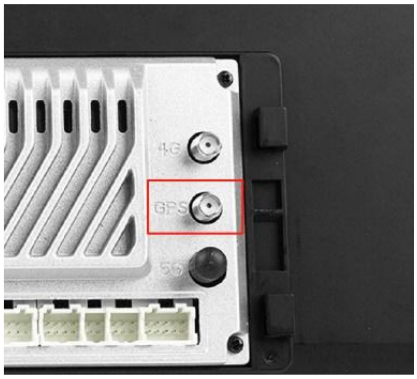
2) Locate and select **Car Model**, then set the protocol according to the following path:
LZ (HZ) → BBA → ALL → LZ (HZ)



3) Exit the menu and check whether the system can now switch to the factory interface correctly.

No.	Problem Description	Solution
2	The car stereo displays **Eastern Time (EST)** while the vehicle is located in the **Pacific Time Zone (PST)**, even though automatic time settings are enabled.	Verify GPS reception and enable network-provided time zone settings, as time and time zone synchronization rely on GPS positioning and network-provided time zone data. If GPS positioning or network time zone settings are not active, the time zone may not update correctly.

1) Ensure the GPS antenna is securely connected to the GPS antenna port on the rear of the car stereo and that GPS positioning is active.



2) Go to **Settings** > **General Settings** > **Date & Time**, and enable **Use network-provided time zone**.

