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litillbuly Android 13 Car Radio 2G+32G

litillbuly Android 13 Car Radio User Manual

Compatible with Dodge Ram 1500, 2500, 3500 (2013-2019) with Manual AC

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your litillbuly Android 13 Car Radio. This unit is designed for specific Dodge Ram models and features a 9-inch HD capacitive touch screen, Android 13 operating system, wireless CarPlay, Android Auto, GPS navigation, Bluetooth, and Wi-Fi connectivity. Please read this manual thoroughly before installation and use to ensure proper function and safety.



Image 1.1: The litillbulby Android 13 Car Radio unit with its 9-inch display and integrated control panel.

2. PRODUCT OVERVIEW AND FEATURES

The litillbulby Android 13 Car Radio offers a range of functionalities to enhance your driving experience:

- **Operating System:** Android 13 with 2GB RAM and 32GB ROM for smooth application performance.
- **Display:** 9-inch HD 1080P capacitive touch screen.
- **Vehicle Compatibility:** Specifically designed for Dodge Ram 1500, 2500, 3500 models from 2013-2019. **Important: Only compatible with vehicles equipped with Manual AC controls.**
- **Smartphone Integration:** Built-in Wireless CarPlay and Android Auto for seamless phone connectivity.
- **Navigation:** Supports both online and offline GPS navigation with preloaded North American maps.
- **Audio:** High-quality digital stereo FM/AM tuner (RDS), built-in microphone, and customizable EQ settings (Jazz, Rock, Pop, Classic).
- **Connectivity:** Bluetooth for hands-free calling and audio streaming, Wi-Fi/WLAN for internet access, and USB ports.

- **Safety Features:** Supports rear reversing camera input and steering wheel controls.
- **Multimedia:** Supports various multimedia playback methods, including online streaming and local files.
- **Mirror Link:** Compatible with Android and iOS mobile devices.

3. SETUP AND INSTALLATION

Proper installation is crucial for optimal performance. It is recommended that installation be performed by a qualified technician. Ensure the vehicle's battery is disconnected before beginning installation.

3.1. Package Contents

Your package should include:

- Android 13 Car Radio unit (pre-installed in replacement bezel)
- Vehicle power adapter cable with CAN-BUS module
- Fakra to DIN antenna adapter
- GPS antenna
- AV input/output cable
- Two USB cables (USB to USB-A)
- USB to MicroUSB cable
- Mini speaker unit
- Screwdriver and body panel pry tool
- External microphone
- Backup camera cable
- Backup camera (if included in your specific variant)

3.2. Compatibility Check

This unit is only compatible with Dodge Ram 1500, 2500, 3500 models from 2013-2019 that have **Manual AC controls**. It is not compatible with vehicles equipped with Automatic AC.



Image 3.1: Visual guide for identifying compatible manual AC controls versus incompatible automatic AC controls in Dodge Ram vehicles.

3.3. General Installation Steps

1. Carefully remove the factory radio bezel and the existing radio unit from your vehicle's dashboard using the provided pry tool.
2. Detach the OEM inner bezel and transfer the HVAC controls from the original bezel to the new replacement radio bezel.
3. Install the new radio bezel, with the litillbuly unit, into the factory radio bezel.
4. Connect the vehicle power adapter cable to the radio's black power socket. Connect the small speaker module to the socket on the power harness and secure it behind the radio cavity.
5. Connect the radio's auxiliary sockets (white sockets) as appropriate; plugs are designed to fit only into their correct ports.
6. Install the GPS antenna under the dashboard, away from any metal obstructions, using its self-adhesive pad.
7. If desired, connect the external microphone. Route its long cord to a convenient location near the driver, such as on the dash or near the headliner.

8. Use the USB to MicroUSB cable to retain the center console USB connector if applicable.
9. For backup camera installation, refer to the specific instructions below.
10. Once all connections are made, carefully reinstall the factory radio bezel, ensuring all wires are neatly tucked into the radio cavity.

3.4. Backup Camera Connection

The unit supports both aftermarket and original factory reversing cameras.

3.4.1. Aftermarket Camera Connection

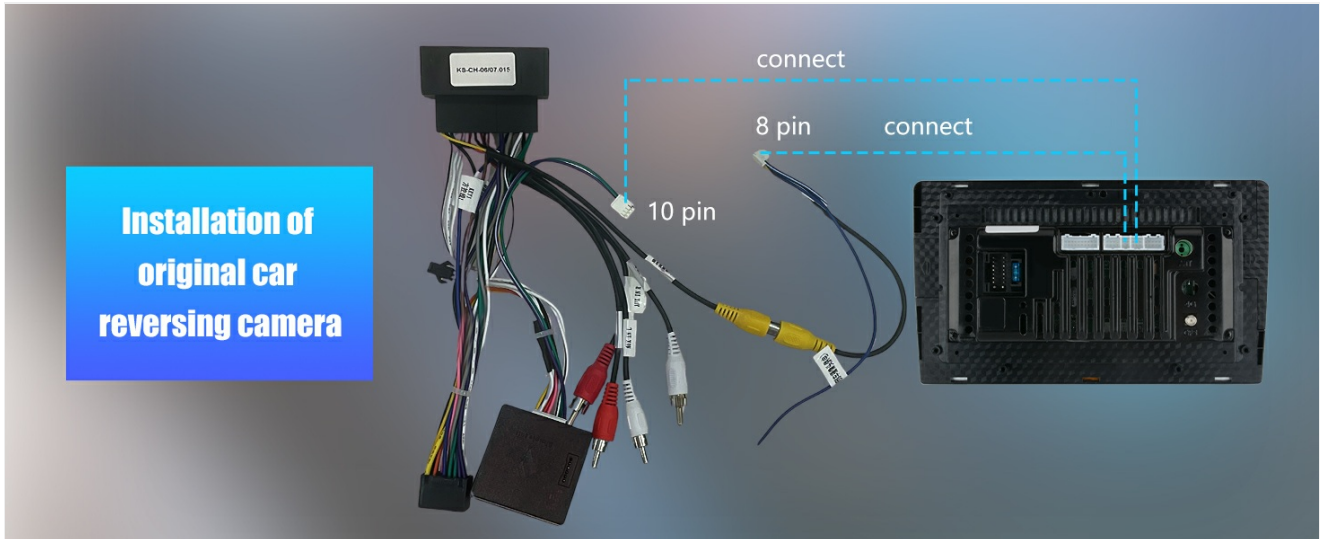


Image 3.2: Wiring diagram for connecting an aftermarket backup camera. The red cable connects to the backup light's positive terminal, the black cable to ground, and the brown cable from the power harness connects to the reverse cable (pin 3) on the main connector.

Connect the included aftermarket camera as follows:

- Connect the red cable from the camera to the backup light's positive (+) terminal.
- Connect the black cable from the camera to a ground (GND) point.
- Locate pin number 3 (reverse cable) on the main power harness connector. Connect the brown cable from the power harness to this reverse cable.
- Connect the yellow RCA plug from the camera to the corresponding video input on the radio's AV harness.

3.4.2. Original Car Reversing Camera Connection

Android 13 System

Android 13 system, it can quickly launch apps, smooth video playback and excellent overall performance, it has 2GB RAM and 32GB ROM or 64GB ROM (Many similar radios are 16GB ROM) After connecting to WIFI or VLAN , you and your family can enjoy online music/video or online maps.



GPS Navigation

There are preloaded North American maps and you can plan your route directly by postal code / address / POI. You can choose 2D/3D maps while driving. 3D maps allow you to better identify buildings without having to worry about complex routes. You can also download more navigation apps via Wifi!



Support Split Screen

With split-screen function you can enjoy both views on the same screen at the same time



Image 3.3: Wiring diagram for connecting an original factory reversing camera. The yellow RCA plug from the power harness connects to the yellow plug on the white camera harness pigtail.

If your vehicle has an OEM backup camera, connect the yellow RCA plug from the power harness to the yellow plug on the white camera harness pigtail.

4. OPERATING INSTRUCTIONS

Once installed, the unit powers on with the vehicle's ignition. The Android 13 interface provides intuitive access to all functions.

4.1. Basic Navigation

The 9-inch touch screen allows for easy navigation through menus and applications. Swipe, tap, and pinch gestures are supported. The home screen provides quick access to frequently used functions like Phone, Music, Spotify, and Navigation.

4.2. Steering Wheel Controls (SWC)

If your vehicle is equipped with steering wheel controls, they will function automatically after installation. You can safely adjust volume, change tracks, and answer calls without taking your hands off the wheel. If your vehicle lacks built-in SWC, external controls can be connected using the Key1 and Key2 wires on the power harness.

5. CONNECTIVITY

5.1. Wireless CarPlay & Android Auto

Connect your iPhone or Android phone wirelessly via Bluetooth to access CarPlay or Android Auto. This allows you to use voice assistants, get directions, make calls, send messages, and enjoy music directly from your phone's interface on the car radio display.

Wireless CarPlay Android Auto

Built in Carplay & Android Auto, support to use smart voice assistant or touch the display, you can get directions, make calls, send and receive messages, and enjoy music etc.



Image 5.1: The car radio displaying the Wireless CarPlay interface on the left and the Android Auto interface on the right, demonstrating smartphone integration.

5.2. Bluetooth Hands-Free

The built-in Bluetooth function supports hands-free calling for both Android and iOS phones. Pair your phone to make and receive calls safely. An external microphone is included to improve call clarity if needed.

5.3. Wi-Fi/WLAN Internet

Connect the unit to a Wi-Fi hotspot (e.g., from your smartphone) to access online features. This enables downloading apps like YouTube or Gmail from the Google Play Store, and using online navigation services.



Image 5.2: The car radio displaying Wi-Fi connection settings and a Bluetooth hands-free call interface.

5.4. Mirror Link

The Mirror Link feature allows you to mirror your Android or iOS smartphone screen onto the car radio display.

6. NAVIGATION (GPS)

The unit features a built-in GPS module and supports both online and offline navigation. After connecting the GPS antenna, you can plan routes using coordinates, postal codes, addresses, or Points of Interest (POI).

GPS navigation

Support offline navigation and online navigation, GPS satellite positioning, accurate positioning, covering a wide area. Quick Booting.



Image 6.1: The car radio displaying a detailed GPS navigation map with a planned route and various location markers.

For real-time traffic information, you can download online map applications from the Google Play Store when connected to Wi-Fi.

7. MEDIA PLAYBACK

The car radio supports various media playback options:

- **Radio Tuner:** High-quality digital stereo FM/AM tuner with RDS. Stations can be searched automatically or semi-automatically, and presets are available.
- **Audio Equalizer:** Adjust audio output with preset EQ modes (Jazz, Rock, Pop, Classic) or customize settings for each speaker.
- **USB Playback:** Play multimedia files from connected USB devices.
- **Online Streaming:** Access music and video streaming services via Wi-Fi.

8. REVERSING ASSISTANCE

The unit provides features to assist with reversing:

- **Rear Camera Support:** Connect a rear reversing camera for visual assistance when backing up. The display will automatically switch to the camera view when the vehicle is in reverse.
- **Headrest Video Output:** The unit supports transferring video output to headrest monitors, allowing rear passengers to view content.

9. MAINTENANCE

To ensure the longevity and optimal performance of your car radio, follow these general maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the screen and unit. Avoid abrasive cleaners or solvents.
- **Temperature:** Avoid exposing the unit to extreme temperatures.
- **Software Updates:** Periodically check for and install any available software updates to ensure the system runs efficiently and securely.
- **Connections:** Ensure all cables and connections remain secure.

10. TROUBLESHOOTING

If you encounter issues with your litillbulby car radio, refer to the following common problems and solutions:

Problem	Possible Cause / Solution
Unit does not power on	Check power connections and vehicle's fuse box. Ensure the CAN-BUS module is correctly connected.
No sound or low volume	Check speaker connections. Adjust volume settings on the unit and steering wheel. Verify EQ settings. If using CarPlay/Android Auto, volume may differ from radio.
Wi-Fi disconnects frequently	Ensure the Wi-Fi hotspot is stable and within range. Check Wi-Fi settings on the unit. Restart the unit and hotspot.
Bluetooth connection issues	Ensure Bluetooth is enabled on both the unit and your phone. Delete previous pairings and re-pair. If multiple phones are used, manually select the desired device.
CarPlay/Android Auto not connecting or glitching	Ensure your phone's operating system is up to date. Restart both the phone and the car radio. Check for app updates for CarPlay/Android Auto. Ensure Zlink5 app is functioning correctly.
GPS signal weak or inaccurate	Ensure the GPS antenna is properly installed and positioned away from metal obstructions. Check GPS settings.
Backup camera image quality is poor	Verify camera connections. Ensure the camera lens is clean. Some cameras may have lower resolution.
Screen unresponsive or frozen	Perform a soft reset by pressing the RST button (if available) or by turning off the vehicle's ignition and restarting.

11. SPECIFICATIONS

Feature	Specification
Operating System	Android 13

Feature	Specification
RAM	2GB
ROM	32GB
Display Size	9 Inches
Resolution	1920 x 1080
Connectivity Technology	Bluetooth, Wi-Fi
Special Feature	Bluetooth, Wireless CarPlay, Android Auto, GPS
Audio Output Mode	Stereo
Mounting Type	Dashboard Mount
Item Weight	3.76 pounds
Package Dimensions	11.89 x 11.02 x 4.8 inches

12. WARRANTY AND SUPPORT

12.1. Warranty Information

This product comes with a 1-year warranty from the date of purchase, covering manufacturing defects. Please retain your proof of purchase for warranty claims.

12.2. Extended Protection Plans

Optional extended protection plans are available for purchase:

- 2-Year Protection Plan
- 3-Year Protection Plan
- Complete Protect (monthly plan covering eligible past and future purchases)

For details on these plans, please refer to the product's purchase page or contact your retailer.

12.3. Customer Support

For technical assistance, troubleshooting beyond this manual, or warranty inquiries, please contact litllbulby customer support through the retailer's platform or the official brand website.