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› ASURE 9.1-inch Car Radio Upgrade User Manual

ASURE B0C8JCKZ18

ASURE 9.1-inch Car Radio Upgrade User Manual

Model: B0C8JCKZ18 | Brand: ASURE

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your new ASURE 9.1-inch Android GPS Navigation Dash Unit. This unit is specifically designed as an upgrade for Dodge Ram 1500, 2500, and 3500 Pickup models from 2013 to 2018 equipped with Manual AC. It features an 8-Core 1.6Ghz CPU, 4GB RAM, 64GB ROM, and a 1280x720 HD Touchscreen IPS display, offering a smooth and responsive user experience with advanced connectivity options.

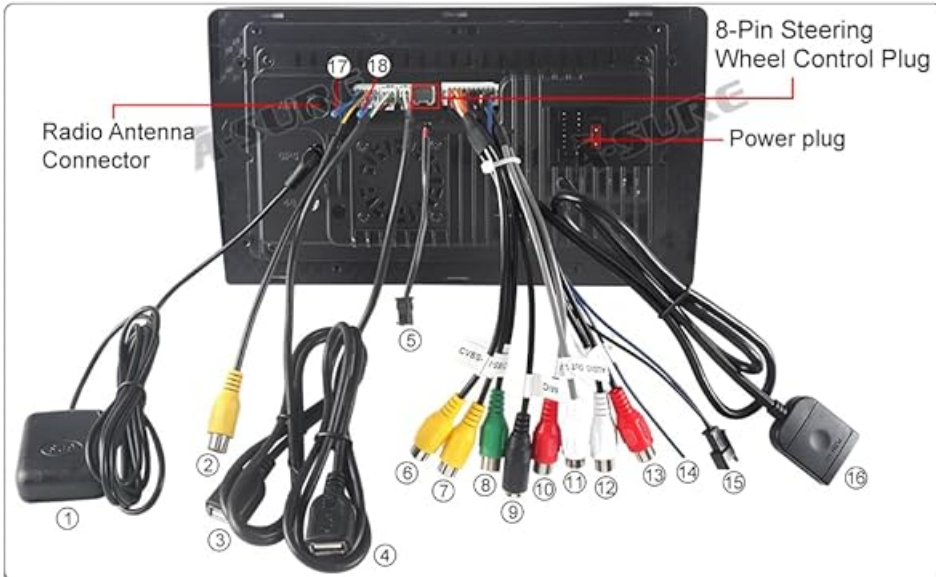


Figure 1.1: Front view of the ASURE 9.1-inch Car Radio Upgrade unit.

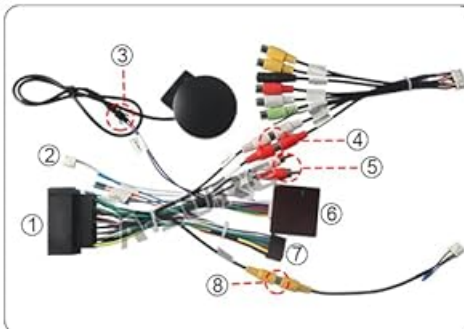
2. PACKAGE CONTENTS

Please verify that all items listed below are included in your package:

- 1x 8-Core Car Stereo Radio Unit
- 1x Installation Bezel
- 1x Wiring Harness Kit
- 1x GPS Antenna
- 1x USB Cable
- 1x Audio Video Cables
- 1x Microphone
- 1x CAN BUS Decoder
- 1x User Manual (this document)
- Mounting Brackets and Screws



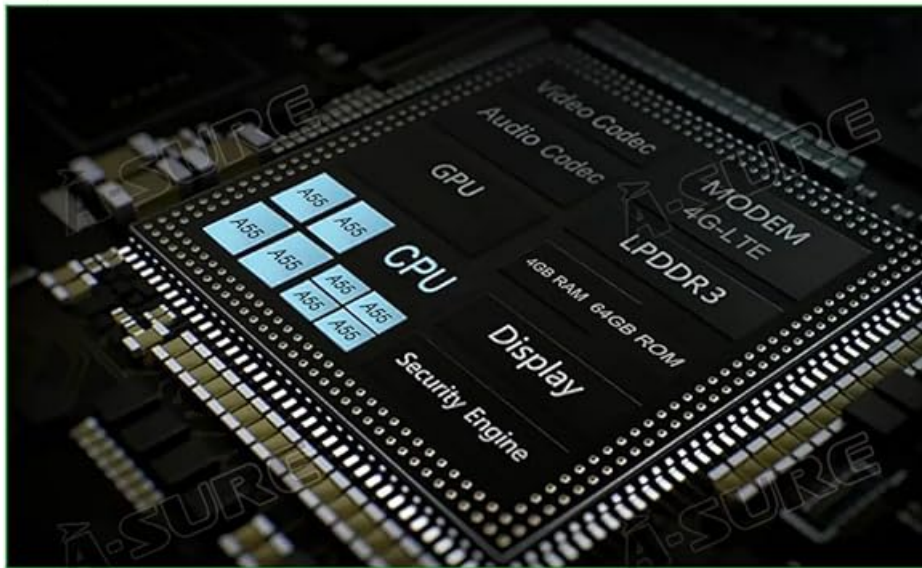
- | | | | |
|---|------------------------|-----------------------|-----------------------------|
| 1. GPS Antenna | 5. Plug of cooling fan | 10. AUDIO OUT R | 15. Fan Power, to no.5 plug |
| 2. Camera Input | 6. CVBS IN 1 | 11. AUDIO OUT L | 16. SIM Card Slot |
| 3. 6-Pin USB 2.0 port | 7. CVBS IN 2 | 12. AUX IN L | 17. Wifi Antenna |
| 4. 4-Pin OTG USB: to Smartphones for MirrorLink | 8. SUB WOOFER | 13. AUX IN R | 18. Bluetooth Antenna |
| | 9. MIC | 14. Amplifier Control | |



1. to the factory plug
2. to the new radio's rear 8-Pin Steering Wheel Control socket
3. to the external speaker
4. AUX L OUT to AUX IN L, AUX R OUT to AUX IN R
5. CD_AUDIO R, CD_AUDIO L, leave them alone
6. CAN-BUS Box
7. to the new radio's rear power socket
8. to the new radio's reversing camera input port

Accessories





AIDA64 Test	
Manufacturer	sprd
Model	uis8581a2h10_Automotive
Brand	SPRD
Board	uis8581a2h10
Device	uis8581a2h10
Hardware	uis8581a2h10
Platform	sp9863a
Product	uis8581a2h10_Automotive
Installed RAM	4 GB
Total Memory	3814 MB
Available Memory	2333 MB
Internal Storage Total Space	64 GB
Internal Storage Free Space	57.12 GB
External Storage Total Space	
External Storage Free Space	
Bluetooth Version	4+
Device Features:	android.hardware.audio.output

AIDA64 Test	
Core Architecture	8x ARM Cortex-A55 @ 1600 MHz
Instruction Set	64-bit ARMv8-A
CPU Revision	r1p0
CPU Cores	8
CPU Clock Range	768 - 1600 MHz
Core 1 Clock	768 MHz
Core 2 Clock	768 MHz
Core 3 Clock	768 MHz
Core 4 Clock	768 MHz
Core 5 Clock	768 MHz
Core 6 Clock	768 MHz
Core 7 Clock	768 MHz
Core 8 Clock	768 MHz
CPU Utilization	14 %
Scaling Governor	schedutil
Supported ABIs	arm64-v8a, armeabi-v7a, armeabi
Supported 32-bit ABIs	armeabi-v7a, armeabi
Supported 64-bit ABIs	arm64-v8a

ChatGPT Use Cases

A tell me a joke

G Sure! Here is a classic joke:
Why couldn't the bicycle stand up by itself?
Because it was two-tired!

A I'm looking for a new pair of running shoes, can you recommend some products?

G Sure! When looking for a new pair of running shoes, it's important to consider your foot type, running style, and any specific needs you may have (such as overpronation or a desire for extra cushioning). Here are a few running shoe options that may be worth considering:

- ASICS Gel-Kayano 26: This shoe is designed for runners with overpronation and features a gel cushioning system to help absorb impact.

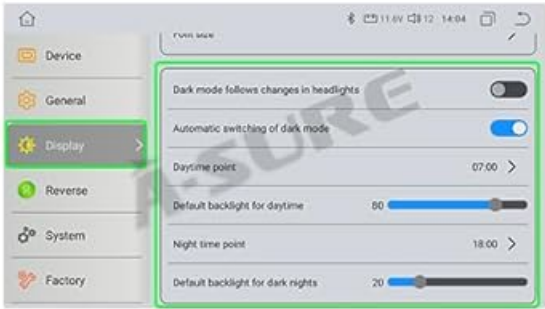



- Brooks Ghost 11: This shoe is a neutral running shoe with a responsive cushioning system and a flexible sole.
- Nike Zoom Pegasus 36: This shoe is a classic, reliable option with a Zoom Air cushioning unit in the

Figure 3.1: Illustration of the high-performance 8-Core CPU, 4GB RAM, and 64GB ROM.



Figure 3.2: Visual representation of the Octa-Core Processor, 4GB RAM for speed, and 64GB ROM for storage.

New added features

<p>1. Day/Night Mode</p> 	<p>2. Customized Radio Station Name</p> 
<p>Especially different screen backlight settings for Day and Night, let you clearly and comfortably watch the screen all the time</p>	<p>You can customize a name of a radio station. The name can be displayed on the Home Screen</p>
<p>3. Customized APP list interface</p> 	<p>4. Car Battery Voltage info</p> 
<p>You can change and customize the APPs in the Main Interface</p>	<p>You can see your battery's Voltage info on the Home Screen, get real-time visibility into your vehicle's battery health</p>

The 3rd Generation IPS Screen: 1280*720



Generation	Pixel	Difference
1st: 800*480	384000	
2nd: 1024*600	614400	$614400/384000=1.6$ times
3rd: 1280*720	921600	$921600/614400=1.5$ times

Screen Display Resolution: 1280*720

Video Output Resolution (to external monitor): 1024*600

Figure 3.3: Comparison of screen resolutions across different generations, highlighting the 1280x720 3rd Generation IPS screen.

4. INSTALLATION

Important Reminder: Before installing the unit, please disconnect the battery from the car. Failure to do so may result in burning out the original car fuse.

4.1 Pre-Installation Steps

1. Ensure the vehicle's battery is disconnected.
2. Carefully remove the existing car radio and surrounding trim panel. Refer to your vehicle's specific service manual for detailed instructions on panel removal and screw locations.
3. Unscrew all small screws holding the original components in place.



Figure 4.1: The vehicle dashboard with the original radio and surrounding panel removed, showing the internal structure.

4.2 Wiring Connections

The unit comes with a plug-and-play wired harness. Connect the main wiring harness to your vehicle's factory plug. Ensure all necessary connections are made securely.

- Connect the main power supply harness to the unit and the vehicle's wiring.
- Connect the GPS antenna to the designated port on the unit.
- Connect the radio antenna.
- For steering wheel control, connect the 8-Pin plug (integrated in the power harness) to the radio's rear 8-Pin socket. Some cars may require manual wiring for SWC.
- If installing a rear view camera, connect the camera input cable. The CAN-BUS works to automatically shift the screen to the rear view interface when you put into Reverse gear.
- Ensure the white plug is connected to the main device for proper Bluetooth and Wi-Fi signals.

Figure 4.2: Detailed wiring diagram showing connections for power, GPS, camera, and other peripherals.

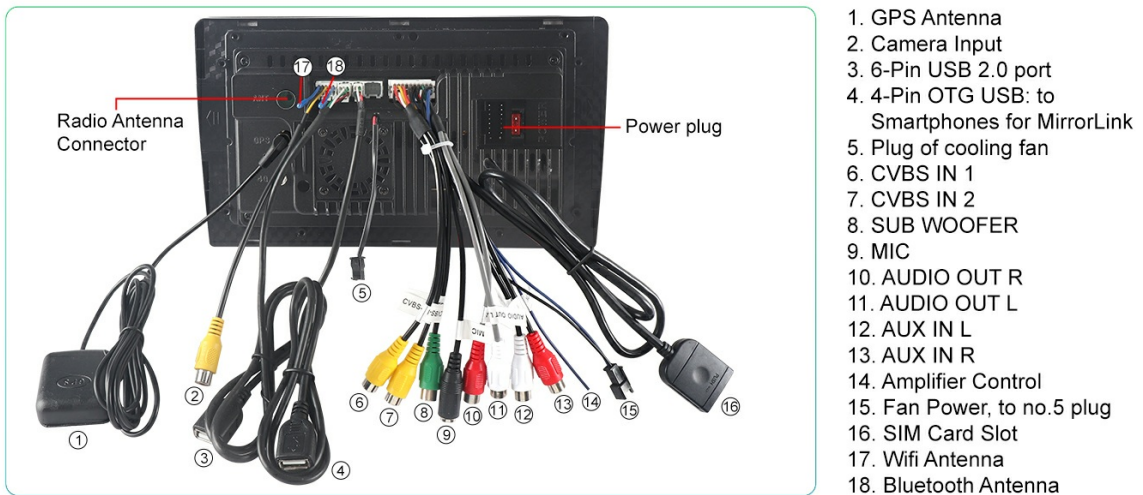


Figure 4.3: Close-up view of the wiring harness and specific connections for various functions.

4.3 Final Assembly

1. Carefully place the new ASURE unit into the dashboard opening.
2. Secure the unit using the provided screws and mounting brackets.
3. Reinstall the trim panel, ensuring it fits perfectly and all clips are engaged.
4. Reconnect the vehicle's battery.

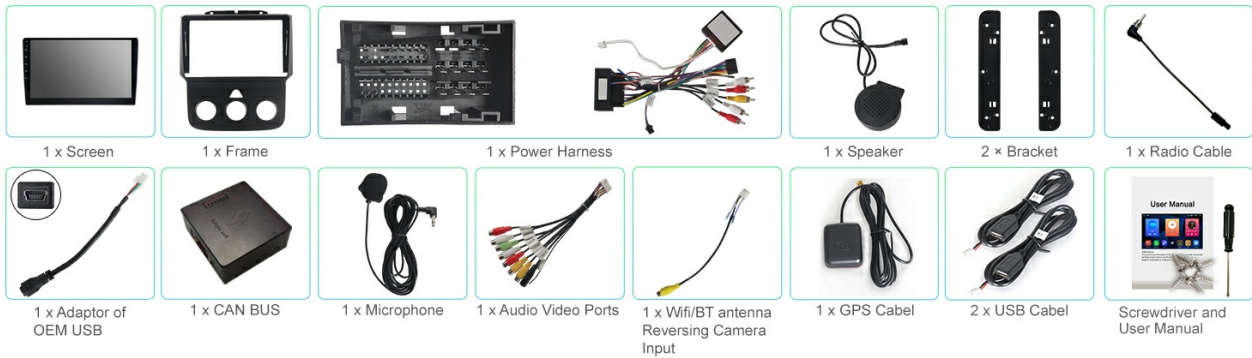


Figure 4.4: The ASURE unit seamlessly integrated into the Dodge Ram dashboard, appearing as an original component.

5. OPERATING INSTRUCTIONS

5.1 Initial Power-Up and Setup

1. After installation, turn on your vehicle's ignition. The unit should power on automatically.
2. Follow the on-screen prompts for initial setup, including language selection and time zone.
3. **Steering Wheel Control Configuration:** To program or customize steering wheel control buttons, navigate to "Settings" in the main menu. Go to "Factory" and input password 3368 or 8888. Click "Car Model" and select "XC(BSJ)->Dodge->coov->XC(BSJ)" or "Simple->dodge->ram1500->13".



The white plug must be connected to the main device, or you can't get bluetooth and wifi signals



Connect the 8-Pin plug (integrated in the power harness) to the radio's rear 8-Pin socket, to make your steering wheel control work



The CAN-BUS works to automatically shift the screen into rear view interface, when you put into Reverse gear. If you haven't installed a rear view camera, the device will display balck screen thereby; If you install a rear view camera, it will automatically display rear view images. To buy a rear view camera, please contact us.

Figure 5.1: Screenshot showing the menu path for configuring steering wheel controls.

5.2 Wireless CarPlay & Android Auto

The unit features built-in wireless CarPlay and Android Auto for seamless smartphone integration.

1. On the unit's main interface, click the "CarLink" icon to initiate the CarPlay or Android Auto function.
2. Ensure your smartphone's Bluetooth and Wi-Fi are enabled.
3. Follow the on-screen instructions to connect your phone via USB or Bluetooth.
4. Once connected, you can use GPS navigation, make calls, send/receive messages, and listen to music directly from your phone's interface displayed on the unit.

Wireless Carplay



CarPlay is Apple's voice-activated system for the car: The goal is to keep you connected to your digital life without having to constantly look at a screen or interact with buttons. It uses Siri and your iPhone to showcase a simplified home screen on your car's touch display; you can also interact with CarPlay by pressing the Voice button on your steering wheel.

There are many, many options when it comes to buying a car, but if you own an iPhone, you might want to add one more to the list: whether your new vehicle supports CarPlay. No need to buy a new car to get Carplay, now A-Sure bring it to your existing car.

Wireless androidauto

Connect your Android phone to our radio—your Android apps show up onscreen, just like that. Tap to get driving directions or talk to send a text. Even call your family, hands-free. Android Auto is made to help you focus on the road. And have more fun along the way. Just plug in and go.

With Google Assistant on Android Auto, keep your eyes on the road and your hands on the wheel. Use your voice to get help with your day. You can find routes, play your favorite songs and even check the weather. Just say "Hev Google" to get started.

and even check the weather today. Try Google to get started.

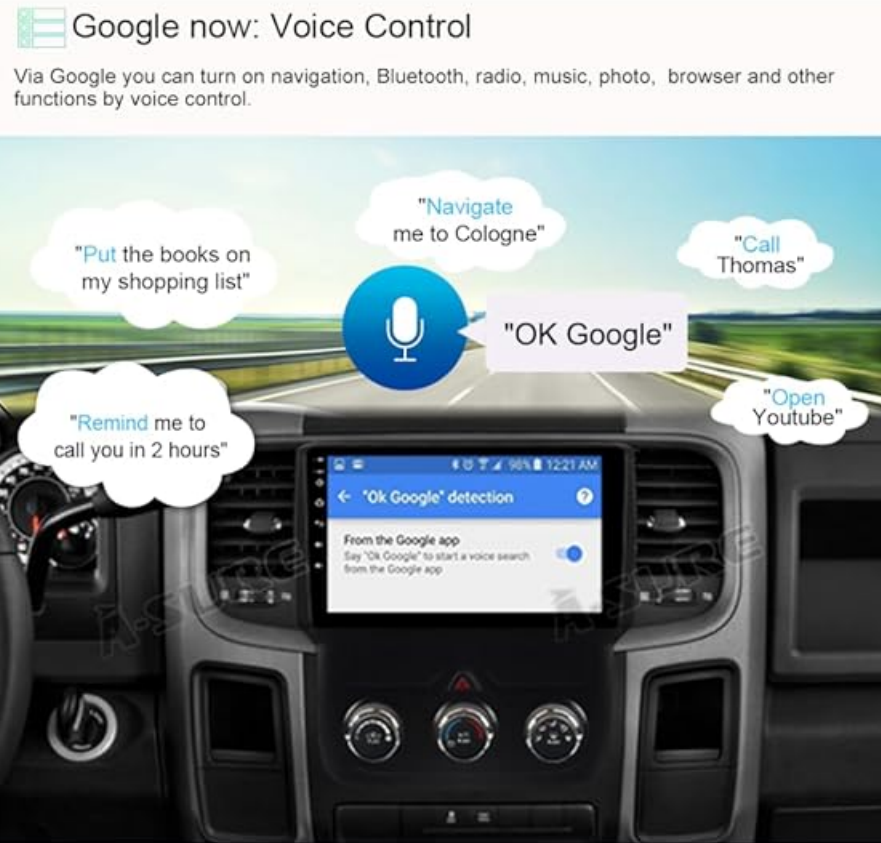


Figure 5.2: Display showing the Wireless CarPlay and Android Auto interfaces, including voice control features.



Figure 5.3: Comparison highlighting wireless connection methods for CarPlay, Android Auto, and Screen Mirroring.

5.3 Navigation

The unit supports both online and offline navigation.

- **Online Navigation:** Connect to Wi-Fi or a mobile hotspot to use online mapping applications like Google Maps.
- **Offline Navigation:** Download offline maps for use without an internet connection. The unit supports internet location and GPS satellite positioning for precise navigation.



Figure 5.4: Examples of online navigation via CarPlay and offline navigation using apps like iGo on Android Auto.

5.4 Bluetooth, DSP, and Wi-Fi

- **Bluetooth:** Enable hands-free calling and answer functions for safer driving. The unit has a built-in microphone, and an external microphone is optional.
- **DSP (Digital Sound Processing):** Customize the audio output for optimal music playback from different seating positions.
- **Wi-Fi:** Connect to Wi-Fi or a mobile hotspot to download apps, offline maps, and access online content.

5.5 Customization Features

The Android system allows for various customizations:

- **Day/Night Mode:** Adjust screen backlight settings for optimal visibility in different lighting conditions.
- **Customized Radio Station Name:** Personalize the names of your saved radio stations.
- **Customized APP List Interface:** Organize and customize the applications displayed on the main interface.
- **Car Battery Voltage Info:** Monitor your vehicle's battery voltage directly on the screen.

6. MAINTENANCE

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

- **Cleaning:** Use a soft, dry cloth to clean the touchscreen and unit surface. Avoid abrasive cleaners or solvents.
- **Software Updates:** Periodically check for and install software updates provided by ASURE to ensure the unit has the latest features and bug fixes.
- **Environmental Conditions:** Avoid exposing the unit to extreme temperatures or direct sunlight for prolonged periods.

7. TROUBLESHOOTING

If you encounter any issues with your ASURE unit, please refer to the following common troubleshooting steps:

- **Unit Not Powering On:** Check all power connections and ensure the vehicle's battery is properly connected and charged. Verify the car's fuse is intact.
- **No Sound:** Check speaker connections and audio output settings. Ensure the volume is not muted or set too low.
- **CarPlay/Android Auto Connection Issues:** Ensure your phone's Bluetooth and Wi-Fi are on. Try restarting both the unit and your phone. Verify the "CarLink" app is active.
- **GPS Signal Loss:** Ensure the GPS antenna is securely connected and has a clear view of the sky.
- **Steering Wheel Controls Not Working:** Re-verify the wiring connections for SWC. Re-enter the factory settings password (3368 or 8888) and reconfigure the car model and button assignments.

- **Screen Unresponsive:** Try restarting the unit. If the issue persists, a factory reset might be necessary (consult the full digital manual for instructions).

For persistent issues or problems not covered here, please contact ASURE customer support.

8. WARRANTY AND SUPPORT

Your ASURE 9.1-inch Car Radio Upgrade comes with a warranty to cover manufacturing defects.

- **Warranty Period:** 1 year repair warranty.
- **Returns/Replacements:** 30 days free return and replacement.

For warranty claims, technical support, or any inquiries, please contact ASURE customer service through the platform where you purchased the product or visit the official ASURE website for contact information.