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› VIGORWORK 7-Inch HD Screen Car Stereo User Manual

VIGORWORK B300C

VIGORWORK 7-Inch HD Screen Car Stereo User Manual

Model: B300C

1. INTRODUCTION

Thank you for choosing the VIGORWORK 7-Inch HD Screen Car Stereo. This portable car MP5 player is designed to enhance your in-car entertainment and connectivity experience. It features compatibility with Apple CarPlay and Android Auto, Mirror Link functionality, Bluetooth hands-free calling, FM signal transmission, and support for a backup camera. This manual provides detailed instructions for installation, operation, and maintenance to ensure optimal performance and user satisfaction.

2. PRODUCT OVERVIEW AND COMPONENTS

The VIGORWORK 7-Inch HD Screen Car Stereo (Model B300C) is a versatile car entertainment system. It includes the main unit, a cigarette lighter power cable, and an AV input cable.



Figure 2.1: Main unit of the VIGORWORK 7-Inch HD Screen Car Stereo and its accompanying accessories, including the power cable and AV input cable.

3. SETUP AND INSTALLATION

The VIGORWORK car stereo is designed for easy plug-and-play installation, primarily using the cigarette lighter power supply.

3.1 Power Connection

The device is powered directly via your vehicle's cigarette lighter socket. This method avoids complex wiring and does not damage the original vehicle's central control system.

Cigarette lighter power supply plug and play

Directly plug into the cigarette lighter jack, do not destroy the original car central control, avoid installation troubles



(Cigarette lighter power plug)



Figure 3.1: Illustration of connecting the car stereo to the vehicle's cigarette lighter socket for power. This provides a 12-24V voltage supply, suitable for most cars and trucks.

3.2 Mounting Considerations

The unit's compact design ensures it does not obstruct the driver's view. Ensure the mounting location allows for clear visibility of the screen and easy access to controls.

- **Mounting Size:** 120mm x 67mm
- **Faceplate Size:** 190mm x 110mm
- **Mainframe Depth:** 25mm

4. OPERATING INSTRUCTIONS

This section details the primary functions and how to operate your VIGORWORK car stereo.

4.1 Apple CarPlay

Connect your iPhone to access CarPlay features, including navigation, calls, messages, and music, displayed directly on the car stereo screen. Supports both wireless and wired connections.




CarPlay

CarPlay allows you to intelligently and safely use iPhone features while driving. You can open navigation, make calls, send and receive messages, and listen to your favorite songs. All of this is integrated on the central control display in the car.

Your strength
copilot

Car mode for iPhone

Wireless connections 

Wired connection 


Siri

Whether it's making a call or replying to a message, Siri can do it for you. Now, if you have something to say, speak up. No need to read and write information, just listen and speak.

iPhone compatible with CarPlay



Figure 4.1: The Apple CarPlay interface shown on the 7-inch HD screen, demonstrating access to phone, music, maps, and messages. Supports wireless and wired connections.

4.2 Android Auto

Connect your Android phone to use Android Auto for navigation, calls, and entertainment. Supports both wireless and wired connections. Requires Android 6.0 or higher and an active data cable connection for wired use.



Android Auto

Connect your Android phone to the car's screen and the screen instantly displays your Android app, it's that simple. You can tap the screen to get driving directions, send text messages by voice, or even make phone calls hands-free. Android Auto is designed to help you pay attention to the road and enjoy a variety of entertainment while driving, just say "Hey Google" to get started.

Take the car screen as
Operation interface



Car Mode for Android Phones

Wireless
connections



Wired
connection



To use Android Auto, you need a phone running Android 6.0 or higher and an active data cable connection. It can only be used when the mobile phone has a complete Google framework service and can connect to the Google website.

Figure 4.2: The Android Auto interface on the car stereo screen, showing applications like Google Maps, YouTube Music, and Spotify. Supports wireless and wired connections for Android phones.

4.3 Mirror Link Function

Mirror Link allows you to display your smartphone's screen content directly onto the car stereo. Compatible with

both Android and iOS systems.

- **iPhone:** Connect the iPhone via USB cable for screen mirroring.
- **Android:** Install the required APP software and connect for screen mirroring.



Figure 4.3: Demonstration of the Mirror Link function, where content from an iPhone or Android phone is displayed on the car stereo screen.

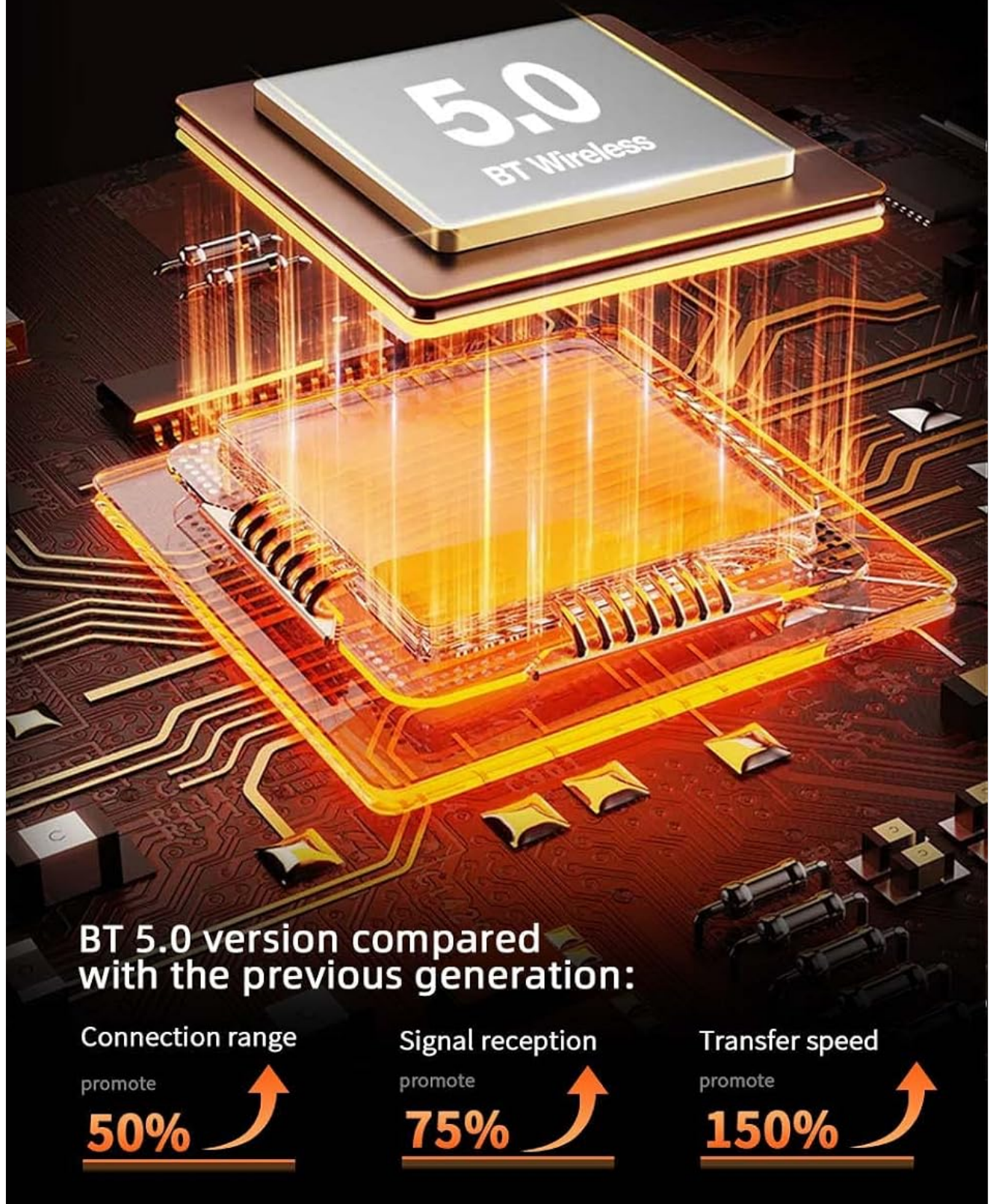
4.4 Bluetooth 5.0 Connectivity

The built-in Bluetooth 5.0 chip ensures stable and fast wireless connections for hands-free calls and audio

streaming.

- **Hands-free Calls:** Make and receive calls safely while driving.
- **Music Playback:** Stream audio from your Bluetooth-enabled device.

BT connection Version 5.0



BT 5.0 version compared
with the previous generation:

Connection range

promote

50%



Signal reception

promote

75%



Transfer speed

promote

150%



Figure 4.4: Visual representation of the Bluetooth 5.0 chip, indicating improvements in connection range (50%), signal reception (75%), and transfer speed (150%) compared to previous versions.

4.5 FM Signal Transmission

Transmit audio from the MP5 player to your original car radio via FM signal. This allows the car's speakers to play the audio from the MP5 player.

- **Frequency Range:** FM 87.5MHz ~ 108.0MHz.

FM Transmission Operation Method:

1. Adjust the original car radio to an empty channel (e.g., 92.3MHz) to avoid interference.
2. Set the FM transmission frequency on the portable MP5 player to the same frequency as the car radio (e.g., 92.3MHz).
3. The audio from the portable MP5 player will now be transmitted and played through the original car speakers.

FM signal transmission

Frequency can be specified

Output audio through FM signal transmit signal to original car Radio can be set to transmit frequency: FM87.5~108.0MHz



Built-in speaker output

When playing a music video with a USB stick, the sound can be played from the small speaker on the back.



Headphone jack output

Can also be released through the headphone jack.



FM radio output

Also available on FM radio.



FM transmission operation method:

1. Adjust the original car radio to an empty channel position Example: 92.3MHz (Avoid conflict with local broadcasts and interfere with the signal)
2. Set the FM transmission frequency to the same frequency as the original car, Example: 92.3MHz
3. At this time, the sound of the portable MP5 player is transmitted to the original car horn for output

Figure 4.5: The FM signal transmission interface on the car stereo, showing frequency selection. Also highlights built-in speaker output, headphone jack output, and FM radio output options.

4.6 Multimedia Playback

The unit supports various multimedia playback options:

- **USB Interface:** USB 2.0 port for connecting USB drives.
- **TF Card Slot:** Supports TF (microSD) cards for media playback.
- **AUX Input:** For connecting external audio devices.

Supported formats include RM/RMVB/AVI/MP4/MKV/3GP for video, and MP3/WMA/FLAC/APE for audio. It also supports JPG/PNG for pictures.





Figure 4.6: Overview of multimedia playback capabilities, illustrating the use of TF cards, USB drives, and AUX cables for audio, video, and picture playback. The unit also features a built-in speaker.

4.7 Backup Camera Support

The unit supports a wide-angle reversing assist video input. When a signal is detected from a connected backup camera (optional, not included), the screen automatically switches to the reverse video display.

- **Customizable Guidelines:** The reversing assist lines can be customized for precise parking.

Wide angle reversing assist video

Automatically switch to the reverse video screen when there is a signal



(Camera optional)



■ Customizable guideline angle

Figure 4.7: The car stereo screen displaying a wide-angle reversing assist video, complete with customizable parking guidelines, activated automatically when a backup camera signal is received.

4.8 General Controls

- **Remote Control:** The unit comes with a remote control for convenient operation.
- **Reset Button:** A reset button is available for system restarts if needed.

5. MAINTENANCE

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

- **Cleaning:** Use a soft, dry cloth to clean the screen and exterior. Avoid abrasive cleaners or solvents.
- **Temperature:** Do not expose the unit to extreme temperatures or direct sunlight for prolonged periods.

- **Moisture:** Keep the device dry. Avoid contact with water or other liquids.
- **Connections:** Periodically check all cable connections to ensure they are secure.

6. TROUBLESHOOTING

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

- **No Power:**
 - Ensure the cigarette lighter plug is fully inserted and the vehicle's power outlet is functional.
 - Check the vehicle's fuse for the cigarette lighter socket.
- **No Sound:**
 - Verify the volume level on both the car stereo and your connected device.
 - If using FM transmission, ensure the car stereo and the car radio are tuned to the same empty FM frequency.
 - Check audio cable connections (AUX, USB).
- **CarPlay/Android Auto Not Connecting:**
 - Ensure your phone's Bluetooth and Wi-Fi are enabled for wireless connection.
 - If using a wired connection, try a different USB cable, preferably the original cable that came with your phone.
 - Restart both the car stereo and your smartphone.
 - For Android Auto, ensure your phone runs Android 6.0 or higher and has Google Play services updated.
- **Mirror Link Issues:**
 - Ensure the correct app is installed on your Android device for Mirror Link.
 - For iPhone, ensure a stable USB connection.
- **Backup Camera Image Not Displaying:**
 - Ensure the backup camera is properly connected to the AV input.
 - Verify the camera is receiving power.
- **Unit Unresponsive:**
 - Press the reset button on the unit.
 - Disconnect and reconnect the power supply.

7. SPECIFICATIONS

Feature	Detail
Model	B300C (Item No.: AF1313)
Screen Size	7 inches
Screen Type	LCD, 260,000 color screen
Power Supply	External power supply (Cigarette Lighter, 12-24V)

Feature	Detail
Connectivity Technology	Bluetooth 5.0, USB, AUX, TF Card
Supported Features	Apple CarPlay, Android Auto, Mirror Link, Backup Camera Support, FM Signal Transmission
USB Interface	USB 2.0
TF Card Support	Yes (miniSD card type)
Supported Video Formats	RM/RMVB/AVI/MP4/MKV/3GP
Supported Audio Formats	MP3/WMA/FLAC/APE
Signal to Noise Ratio	90dbA
Transmitting Distance (FM)	5m and below
Built-in Speakers	Supported
Remote Control	Yes
Mounting Dimensions	120mm x 67mm
Faceplate Dimensions	190mm x 110mm
Mainframe Depth	25mm

8. WARRANTY AND SUPPORT

VIGORWORK provides after-sales service for this product. For any technical assistance, warranty claims, or support inquiries, please refer to the 'shop three package' information provided with your purchase or contact your retailer. Please retain your proof of purchase for warranty purposes.