C2000 Mercedes Application Guide
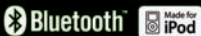

C2000 iPod®/Bluetooth Vehicle Specific Car Kit

Easy integration through vehicle BUS.

MANTIS
WIRELESS PRODUCTS

HANDS-FREEDOM
SIMPLICITY · COMFORT · CLARITY

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Bluetooth™ **Made for iPod**

Contents

1. Using This Guide

This user's guide has been specially designed to guide you through the operation of your device. Before installing or operating this device, please read this manual thoroughly.

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Mantis Wireless Products reserves rights to make any changes and improvements to the product described in this document without prior notice.

Notice:

Please make sure your mobile phone supports Bluetooth profiles and network operator supports the functions described in this manual, otherwise the relative functions cannot be realized on this Handsfree device.

Copyright Information:

Rights to all technologies and products that comprise this device are the property of their respective owners.
Bluetooth$^®$ is a registered trademark of the Bluetooth SIG, Inc, worldwide.
Bluetooth QD ID: B015010

2. Declaration

Always comply with the following precautions and usage tips to avoid dangerous situations and ensure peak performance of your device.

- **Operate Your Vehicle Safely:**

  Using any electronic device while driving, especially a mobile phone, can be extremely dangerous. In some locations, using mobile phones while operating a motor vehicle is illegal. Check the laws and regulations on the use of mobile phones and handsfree equipment in the areas where you drive. Always give full attention to driving and pull off the road and park before making or answering a call if driving conditions require.

- **Mount All Equipment Properly:**

  Do not install any equipment in any location or fashion that will interfere with normal operation of your vehicle.

- **Avoid Exposing the Device to Extreme Temperatures:**

  Do not install the device in very hot, very cold, or very humid environments.

- **Use Only a 12/24V Power Source:**

  A power source with an incorrect voltage can seriously damage your device and/or your vehicle.

- **This Device May Cause RF Interference:**

  Radio frequency (RF) signals may affect improperly installed or inadequately shielded electronic systems in motor vehicles. If you notice any faults or changes in the operation of your vehicle, contact an authorized repair center or your vehicle manufacturer immediately.

- **Consult Your Vehicle's User Manual:**

  The installation instructions in this guide are general recommendations only. Consult a professional installer or your vehicle's user manual for specific details and considerations about installing this device.

2. Certification and Safety Approvals

This product has been tested and found to comply with Bluetooth BQB requirements, part 15 of FCC rules, R&TTE Directive（99/5/EC） or CE marked requirements.
Warning: Users should not make changes or modify the device in any way. Changes or modifications without expressly approved by the party responsible for compliance could void the user's authority to operate the device.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

● **FEDERAL COMMUNICATIONS COMMISSION INTERFERENCE STATEMENT:**
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

- Consult the dealer or an experienced radio/ TV technician for help.

● **CAUTION:**
Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the equipment.
● **RF exposure warning:**
The equipment complies with FCC RF exposure limits set forth for an uncontrolled environment. The equipment must not be co-located or operating in conjunction with any other antenna or transmitter.
● **CE command:**
EN 301 489-17 v1.2.1: 2002
ETSI EN 300 328 v1.6.1:2004
IEC 60950-1:2001 / EN 60950-1:2001

3.   Introduction

Congratulations on your purchase of the Mantis C2000 Universal Media Bluetooth (UMB) Handsfree Car Kit. Its convenient features will allow you to enjoy safe, handsfree communication while on the move. This user's manual describes steps for installing and using your new Universal Media Bluetooth Handsfree Car Kit. To ensure proper installation and use of the Universal Media Bluetooth Handsfree Car Kit, please read this manual thoroughly before installing or using the device.

3.1   Bluetooth Technology

Bluetooth is an internationally standardized technology supporting short distance wireless communications. Any two Bluetooth-compatible equipments, such as mobile phone, PDA, PC, headset, mouse, keyboards, printer, etc. can wirelessly communicate with each other via Bluetooth connection. To ensure worldwide compatibility, Bluetooth operates on the globally available Industrial Scientific and Medical (ISM) frequency band. Within 2.4 GHz and 2.48 GHz, Bluetooth transmits data up to either 10 meters (CLASS II mode) or 100 meters (CLASS I mode) using 79 frequency hopping channels.

Though line-of-sight is not required, Bluetooth connections could be subject to interferences from obstructions such as walls, human bodies, and other electronic devices. In addition, due to variations on product implementation, it is likely that Bluetooth equipments from different manufactures have interoperability issues. In that case, you may consult with manufactures to check product compatibility.

Note that, there could be some restrictions imposing on using Bluetooth devices in some countries. Please check with your local authorities.

3.2   About the Mantis C2000 Universal Media Bluetooth (UMB) Handsfree Car Kit

This Mantis Wireless UMB interface is a 4 in 1 device designed to provide USB interconnect to mass storage class devices (MSC) as flash drives and portable hard drives as well as interconnect to most popular media players as Zune, SanDisk, Sansa, authenticate iPod, iPhone and navigate them via the head unit interface. Further it is equipped with second generation Bluetooth interface to provide hands free interface to up to 8 separate cell phones or Bluetooth ready devices simultaneously and for those cell phones equipped with media players would allow A2DP media streaming over media transfer protocol (MTP). The text to speech feature will confirm every command to help you drive safely.

3.3   Support

If additional help is required for questions not answered in this manual or the web site www.Mantiswireless.com please email us at support@mantiswireless.com.

3.4   Product Specifications

- Bluetooth V2.1 compliant, Class II, operating range up to 10 meters
- Supports mobile phone based voice commands including voice dialing
- Universal Media and Bluetooth Controls
- Control and Play IPod or any Mp3 player from the Head Unit
- DSP noise and echo suppression technology
- Listen to MP3 files stored on cell phone – via Bluetooth (A2DP and AVRCP) audio streaming
- Bluetooth audio playback pause during active calls and resumes afterward
- Complies with all Hands-free laws

3.5   Package contents

Ensure your package includes all the items shown below.

USB Cable w/ grommet x 1

Microphone x 1

2+4 MOST Harness x 1

Power Supply Harness x 1

4. Installing the Universal Media Bluetooth (UMB)

To prevent damage to your vehicle or its components, we highly recommend you have the C2000 Universal Media Bluetooth Handsfree Car Kit installed by a professional installer. The installation instructions in this guide are recommendations only. Mantis is not responsible for any damage to your vehicle or the device that result from improper installation or operation.
Note:
Consult your vehicle's owner's manual before beginning installation of any aftermarket device. Improperly connecting this device to your vehicle's ignition system, stereo, and battery can cause other systems to malfunction or perform unpredictably.

4.1 Tools You Will Need

The Handsfree Car Kit comes supplied with all necessary components. You will need the following items to install the Handsfree Car Kit in your vehicle:
- Electric drill and drill bits
- Star-blade screwdriver
- Wire stripper/crimper tool
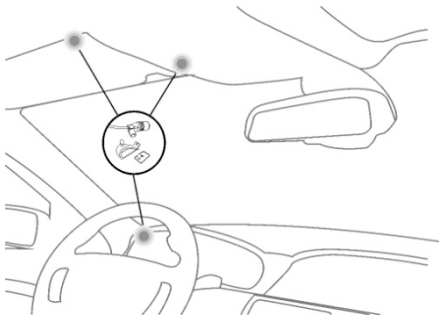- Electrical tape

4.2 Mount Components

4.2.1 Mounting Location

Choose suitable mounting locations for all components before beginning the installation. The following diagrams show recommended and alternate locations of each component.
Notes:
Do not mount components in any location that interferes with safe operation of the vehicle. Mount the remote control in a location that is easily reachable and visible while driving, but does not obscure or impair control or proper operation of the vehicle. Ensure that the installation of components does not damage any electrical or mechanical system of your vehicle.

● **Alternate Mounting Location for Microphone**

4.2.2 Mount the Microphone

● **Mount the Microphone to the Sun Visor**

1. Fasten the mounting clip to the sun visor.
2. Mount the microphone to the mounting clip.
3. Point the Microphone towards the Driver

Power

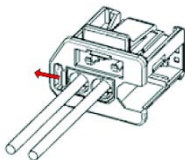*USB Host Interface*   *Configuration switch*
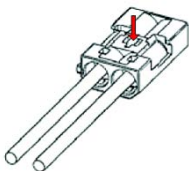
Most 2+4 FO

5.3 UMB Installation

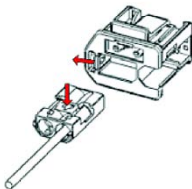**Step 1**: Remove the navigation screen and the radio tuner to begin your installation and set them aside.

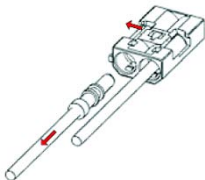**Step 2:** On the Factory harness lift the lock tab gently and pull the insert out of the housing

Step 3: On the Factory optical insert, press the blue lock out to remove it as shown on the drawing
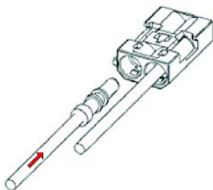

Step 4: On the C2000 optical plug repeat the previous 2 steps and remove the lock
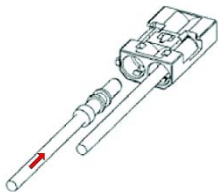
Step 5: On the Factory optical plug lift the tab and allow the optical lead to slide out of the plug on the output side
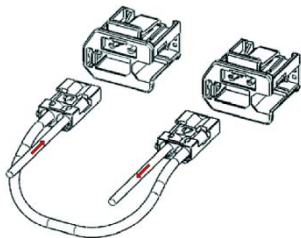

Step 6: On the Factory optical plug insert the optical lead from the input of the C2000 connector to the output of the factory connector
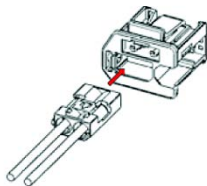

Step 7: On the C2000 optical plug take the optical lead removed from the output of the factory connector and insert it into the output of the C2000 connector
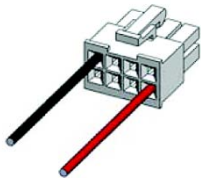
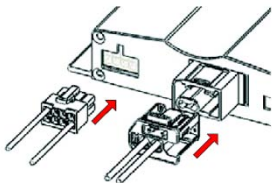**Step 8:** The final assemble will look like this

Step 9: Plug back the insert with leads into the C2000 and the Factory connector

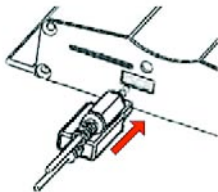**Step 10:** Crimp the black wire to the ground and the red wire to the 12V Battery Power

Step 11: Connect the MOST and the Power plugs to the rear C2000 panel

Step 12: Connect the USB and the microphone plugs to the front panel of the C2000

<u>**Installation Kit Includes**</u>**:**
UMB Module,
2+4 MOST Harness,
Power Supply Harness,
USB Cable w/ grommet,
Microphone, and User Manual

Weight: 350g
Size: 6" x 9" x 2"

5.4 Bluetooth Set-up

NOTE: Before connecting the C2000 unit verify that the Portable Audio system tab is enabled

Step1: USB' and 'IPOD' is made available by choosing the 'CD changer' menu.

Step 2: When UMI is installed and CD changer selected the audio menu is ready for media to be inserted or phone to be paired.

Step 3: The 'Magaz.' menu is selected; the magazine is empty if media is not inserted.

Step 4: To connect to a Bluetooth device select the 'TEL' Button.

Step 5: Pair the phone by typing *PAIR on the numeric keyboard or *7247.

Step 6: Delete pairing by typing *DEL on the numeric keyboard or *335.

Step 7: When the phone is connected the antenna field strength will update on the bottom right corner and return to the audio menu.

5.5 Phone and USB Support

Step 1: To dial a number select TEL menu, type the phone number and press SEND.

Step 2: When call arrives it will be displayed in a pop up window. Press SEND to accept.

Step 3: Press END to reject or you can accept or reject from the phone keys either.

Step 4: When the call is accepted the telephone menu will open during the call.

Step 5: When hands free is paired and audio menu selected will default to the menu below.

Step 6: Pair the phone by typing *PAIR on the numeric keyboard or *7247 then pres SEND.

Step7: Delete pairing by typing *DEL on the numeric keyboard or *335 then pres SEND.

Step 8: When USB drive has been inserted the audio, with start immediately and the track name will be displayed on screen.

Step 9: Selecting 'Magaz.' tab will display the categories in the CD changer menu on the device.

Step 10: Selecting 'Detail' tab will display info for the song playing.

Step 11: Selecting 'Setting' tab will display media player options.

5.6 iPod/ iPhone Support

Step 1: When iPod is connected the HU menu displays the iPod categories.

Step 2: Navigate the category via the joystick or the –SEEK, SEEK+ knobs.

Step 3: When 'Magaz.' tab is selected the category tree is displayed.

Step 4: Change song or album by using the joystick
to switch up/down or between songs left/right.

Step 5: Pair iPod Touch or iPhone to the Bluetooth by
entering into pairing mode.

Step 6: Delete pairing by typing *DEL on the numeric keyboard
or *335 then pres SEND.

Step 7: If no other media connected the HU will show the Bluetooth standard menu.

Step 8: Navigate through iPod Touch or iPhone menus to play the songs in this mode.

Step 9: *Pair up to 8 devices with by repeating the pairing steps above.*

Note:
• _Only one device can play at a given time_
• _To switch between the devices use play/stop functions from the device menu_
• _Phone hands free will have priority when place or receive call_
• _Video or game content played will route audio to speakers_
• _Flash media will take priority over Bluetooth media connected player_

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