

# Motorola IHF1000 Installation tutorial

## INTRODUCTION

The Motorola IHF1000 car kit is an innovative Bluetooth solution which will change the way you talk while you are in your car. Using your compatible Bluetooth "Hands-Free Profile" enabled mobile phone<sup>(1)</sup> with the BLNC IHF1000 car kit, your in-vehicle communication experience is about to go to the next level.

Just touch the blue button and the BLNC IHF1000 car kit will listen to your command and make calls for you. The system's brilliant sound quality with noise reduction and high output sound optimizes sound quality for all parties in conference. With the voice operated control features and high performance audio, you are in the driver's seat.

The stylish, backlit controller with its chrome-brushed finish mounts within easy reach on the dashboard. The simple voice menu prompts and the controller make it easy to:

- pair compatible Bluetooth enabled mobile phones
- answer incoming calls
- mute and un-mute calls
- dial by name with up to 20 locally stored contacts
- dial by number
- dial by the mobile phone keypad
- request system help

### **Multiple Languages**

the system also supports voice recognition in multiple languages including English (US and UK), French (EU), Spanish, Italian and German. So, regardless of who is doing the talking, or in what language, there is no need to "train" the system.

### **One Car: Multiple Drivers**

Multiple people can enjoy the BLNC IHF1000 car kit. Up to four compatible Bluetooth enabled mobile phones can be paired to the system at a time, and easily switched between phones using the voice operated controls.

## **COMPATIBILITY**

The BLNC IHF1000 car kit supports Bluetooth hands-free profile. Your phone must support this profile. For Motorola phones visit the customer support page at [www.hellomoto.com/us/bluetoothcompatibility](http://www.hellomoto.com/us/bluetoothcompatibility). For other phones, contact the manufacturer.

## **CAR KIT CONTENTS**

### ***Interface Cable***

The Interface Cable connects the electronic module (see Fig 2) to the other system components. It connects the vehicle's power and ignition to the car kit and provides some **optional audio connections** when the car kit is used with the vehicle's radio.

### ***Electronic Module***

You can place the electronic module anywhere inside the vehicle to facilitate convenient connection between the interface cable and other system components.

### ***Microphone***

The microphone cable can be routed along the side of the vehicle, through the dash, and along the edge of the windshield. The microphone is placed best near the rearview mirror and aimed directly toward the user.

## User Interface Module

The User Interface Module (UIM) cable can be mounted in several ways to provide a safe and comfortable environment for use.

## INSTALLATION

### WARNINGS!! WARNINGS!!!

1. Locate and Record the radio safe code.  
Most if not all AUDI/VW radios are coded. Do not attempt to install this kit if you don't have the radio code, otherwise the radio will not operate upon reconnection.
2. Some Group A radios do not support PHONE MUTE. Check radio diagram prior to starting.

### 1. HARNESS INSTALLATION

For illustration purposes we will be installing the IHF1000z car kit in a 2000 VW Jetta. The same procedure would apply to any AUDI/VW Group Vehicle with the **connector** diagramed below. (See Fig. 6) Group A vehicles include Premium IV, Premium V and Monsoon radios. Note: Audi/VW Group B radios with a "quad lock connector" will require a different CelFi™ harness and a speaker switcher. (MSS) – see Fig 13

**Note: Radios that DO NOT have Telephone inputs must use the PPH1784 harness along with the Motorola Speaker Switcher (MSS) See Fig. 8C and Fig 13.**

#### Parts Required:

IHF1000Z (our kit does not include a speaker)

GET (German Radio Extraction Tools)

PXVWHF1 **OR** PPH1784 CelFi™ harness and MSS for radios that do not have Telephone inputs.

- Remove the radio (German radio removal tools required) See Fig. 7  
Plug the radio tool into the radio slots until it locks into position  
Pull the radio out of the dashboard by holding onto the grip rings of the release tool
  - Disconnect the radio's 8-pin power harness (bottom/black) and plug into the female 8-pin black connector of the PXVWHF1/PPH1784, connect the male 8-pin male black connector of the PXVWHF1/PPH1784 into the radio...
- PPH1784 only:** Disconnect the radio's 8-pin speaker harness and plug into the female 8-pin brown connector of the PPH1784, connect the male 8-pin male brown connector of the PPH1784 into the radio.
- PXVWHF1 only:** Connect the 6-pin green connector of the PXVWHF1 to the 6-pin slot of the 20-pin connector on the radio.

#### VW GROUP A

Premium IV / Premium V / Monsoon New Beetle



Premium IV / Premium V / Monsoon



Fig. 5



Audi/VW Radio 20/8/8-pin connectors  
Fig. 6



Fig. 7



Fig. 8

Should a 3-part connector (yellow, green, blue) already exist, replace the green connector with the connector provided. (See Fig 8A)

Connect the white 8-pin connector on the other end of the PXVWHF1 to the mating 8-pin connector on the Interface cable (3043533Z02) – See Fig. 9a for close-up or Fig. 9 labeled “to 8-pin vehicle specific harness”.

**PPH1784 only:** Connect the black 18-pin connector to the MSS (Motorola speaker switcher) sold separately.



Fig 8A



Fig 8C



Fig.9a



Fig.9 (3043533Z02)

## 2. USER INTERFACE MODULE (UIM) INSTALLATION



Fig. 10

Determine a suitable mounting location for the UIM (see Fig.10) The UIM should be within a comfortable reach of the driver for ease of use.

- Remove the backing of the tape on the bottom of the User Interface Module (UIM).
- Place the UIM in the desired location and mount the UIM with a firm press.
- Route the UIM cable behind the dashboard and trim, and connect to the 12-pin connector of the Interface cable labeled "to UIM" (see Fig 9)

## 3. MICROPHONE INSTALLATION



Fig. 11

**Note!** Please review the microphone installation warning sheet included in the IHF1000 and IHF1000z kit before installing the microphone. Proper placement of the microphone is essential for optimal Handsfree and Speech Recognition performance.

- Identify a location on the overhead dome light/console assembly or visor to mount the microphone.
- The position of the microphone should be ahead of the driver
- Aim the microphone directly toward the driver for best Speech Recognition performance and Handsfree calling quality.
- Attach 1 side of the provided Velcro tape to the bottom side of the microphone and mount

### **Notes:**

The front of the microphone should point toward the driver; the wire comes out the back of the microphone.

**Microphone placement is about function, not esthetics.**

- Route the microphone cables across the top of the windshield towards the A-pillar. Make sure to route the cable behind the corner of the headliner, and give a slight tug to insure that the cable sits up in the headliner, away from the windshield.
- Continue the cable down the inside of the A-pillar and its trim, above and out of the way of any curtain airbag lines or equipment. Removal of the A-pillar trim may be, but is not always necessary to achieve proper routing. Insure the cable is completely hidden behind the A-pillar trim piece.
- Pass the cable in through the side of the dashboard, then across to the desired Handsfree Module mounting position. Connect microphone to the interface cable labeled "To Mic"

#### 4. HANDSFREE MODULE INSTALLATION



Fig. 12

Choose a suitable point for mounting the Handsfree module based on the locations chosen for the microphone, UIM and the length of the IHF1000 or IHF1000z harness

Hint: Mounting the Handsfree module behind the carpet at the firewall in front of the passenger foot area works for many vehicles. For larger vehicles, large spaces behind the dashboard will also make good mounting location.

After all components are installed make sure to:

- Connect the 32-pin Handsfree module connector from the main Bluetooth system harness (see Fig 9) to the Handsfree Module (See Fig 12)
- Connect the 2-pin Microphone connector from the main Bluetooth system harness to the microphone cable connector
- Connect the 12-pin UIM connector from the main Bluetooth system harness to the UIM cable connector.
- Insure that the 8-pin white connector is secure to its mate on the PXFHDF Harness (See Fig. 9a)

#### 5. TESTING

- Reconnect the battery negative terminal
- Enter Radio Code
- Turn the key to the ignition ON or Accessory position
- Pair a phone
- Verify functionality

When a phone call is received or placed your VW radio will automatically mute the audio source and the caller's voice is heard on the car speakers.

#### Notes and FAQ's!

**1.** Select radios allow the Handsfree system volume to be adjusted by the radio. Please insure that the volume setting chosen on the IHF1000 or IHF1000z UIM is not at a level that causes distortion when the radio's Phone volume level is set to maximum. If distortion is heard, adjust the IHF1000 or IHF1000z volume down via the UIM. This check is necessary for both Handsfree conversation audio, as well as Speech Recognition prompt audio.

**2.** Audi/VW radios that do not have a Telephone input will require the MSS (Motorola Speaker switcher) in addition to PPH1784 vehicle specific CelFi™ harness.

**3.** CelFi™ vehicle specific harnesses are available for: ACURA/HONDA, GM, TOYOTA, SCION and NISSAN/INFINITI, AUDI, BMW, VW, MITSUBISHI, and CHRYSLER.

#### **4. What is the difference between the IHF1000 kit and your offering (IHF1000z)?**

The interface cable included in our **IHF1000Z** kit includes an 8-pin connector for plug-n-play connection to the vehicle specific harness; the interface cable included with the **IHF1000** does not include this connector. You may still use that harness but must cut, crimp or solder the connections to the vehicle specific harness.

5. **Can I use this setup to install my Motorola HF850 Kit?**

YES.

6. The IHFZ1000Z kit does not include a speaker!

7. OnStar equipped vehicles not supported.



Fig 13

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