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Installation instructions for
European Integrated Systems, Ltd.

BMW to *Bluetooth*® Wireless
Technology equipped Car-Kit
Interface

Vehicles covered in this document:

1997 – 2/2002 5 Series Sedans (including DSP
equipped)

Handsfree car-kit:

Sony Ericsson HCB-30

Version r1.3

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Table of Contents

1. Introduction
2. BMW Microphone Installation
3. Harness Installation
4. HCB-30 *Bluetooth* Module Installation
5. Configuration/Setup
6. Warranty/Disclaimer Information

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Thank you for purchasing our BMW interface. This interface is designed to partial integration of your BMW's built in mobile phone capabilities and your *Bluetooth* wireless technology enabled mobile phone. Below is a list of components that you should have received from us or have purchased separately. We will then discuss the features and operation of your new interface.

You will need the following components to complete the installation:

- Interface box
- Wiring harness with multiple connectors (custom for your car)
- Sony Ericsson HCB-30 or other phone kit
- BMW Microphone (part number 84 31 8 380 338)

If you purchased your HCB-30 kit through us, the wiring harness will be ready to go. If you purchased your own, you will need to connect the four power wires to the harness. Splice the four wires per the HCB-30 installation manual. Splicing material not provided by EIS. This kit provides integration of a *Bluetooth* wireless technology enabled phone with the car's stereo for radio mute and use of the built in BMW cell phone speakers. The BMW microphone is also utilized. The steering wheel buttons work for answering a call and hanging up, as well as activating voice dial and volume control during a call. The radio display indicates "PHONE" when a call is in progress (on later model 5 series only). The phone can be set to automatically connect with the car upon starting the car (or pressing the unlock button on the key) and the interface and BMW electronics stay active and connected to your phone after you turn the car off to allow you to complete a call in progress. We do not offer support for display of the calling number on the radio, etc. at this point.

Everything is in the trunk and there are no wires to run. You also have the advantage that if you are leasing your car you can re-use the Sony Ericsson portion of the kit with another brand if you go away from BMW.

Section 2. Installation of the BMW Microphone

Installation of the BMW microphone requires removal of the overhead console cover so as to access the wiring for the mic. Below are pictures of the steps for removal of the cover.

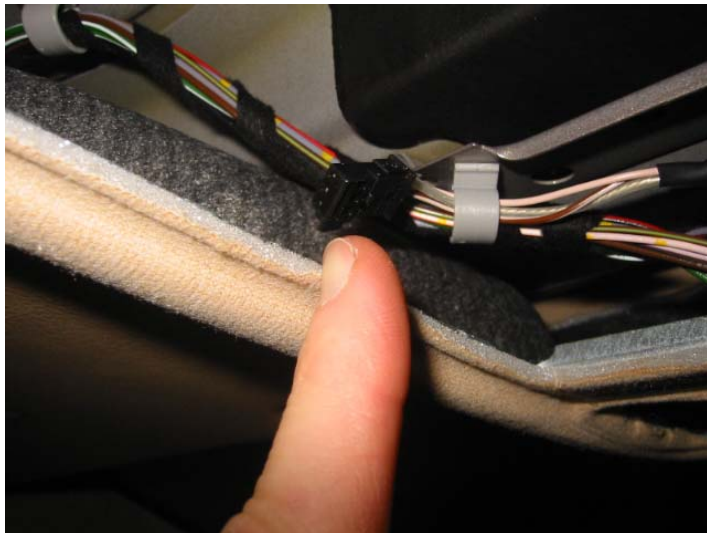


Gently pry apart the overhead light panel from the back of the panel using a small screwdriver or other suitable tool (butter knife).





Using just finger pressure, pull down the cover plate that has the microphone grill in it.



Locate the correct three conductor wire. It will be a black connector and should have one wire that is clear in color. Detach the wire from the cable holders so that you have enough wire to reach where the mic goes. Connect the microphone.



Here is the mic as you are ready to press it into the grill. Note that the arrow should point toward the **front** of the vehicle.

Reinstall the cover and light panel in the reverse order of removal.

Section 3. Installation of the wiring harness

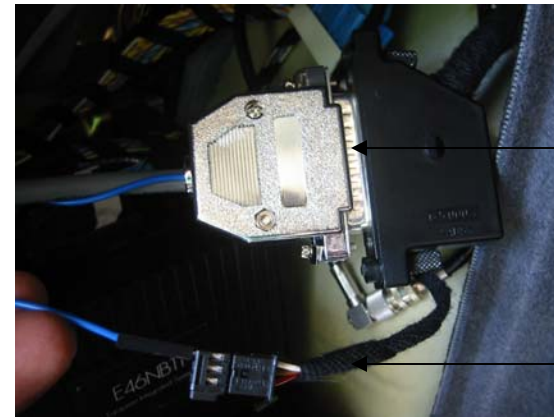
Lets get to the trunk and locate the cabling you will need to have access to. On the left side of the trunk is a door that you would use to change CDs in the CD changer. You may need a small flathead screwdriver to remove the clips so as to pull back the cover panel forward of the door to gain access to the cabling (wrapped in black foam).

Drivers Side trunk – attach DB25 connector

Just pop open the door for access to the BMW CD changer to install this. You may wish to add a tie wrap to ensure permanent attachment.



Look for harness(s) in this area.



Connect cable and blue wire to pin 3 (white/yel) of 3 conductor cable.

There is sometimes more than one 3 conductor cable – please ensure that the color specified is in the connector – if not, please contact us.

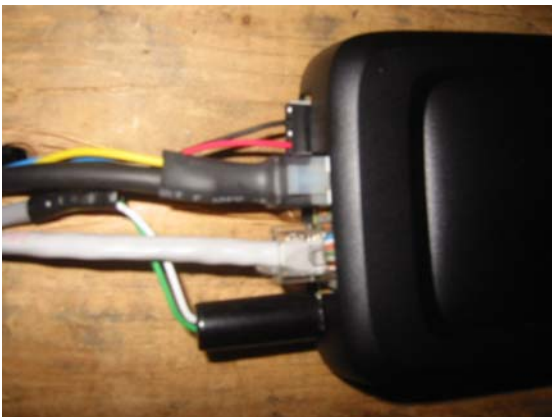


Attach the other 25 pin connector to the EIS Interface Box and screw down.

Section 4: Module installation



Secure EIS
Box
(locations are
at customers
discretion)



Attach Harness
to the HCB-30
module.
Note the
speaker wire
connection
positions. Red
is on pin 1
(closest to
center of
module).



Example
location using
the holes in
the liner
where the
plastic info
buttons were.
There are
many
possible
locations that
will work.
Pictured is a
Nokia kit.

Location of the HCB-30 (or other) BT module is at customers discretion but it should be placed in a location that will aid in the communication to the phone.
Clean up and cut tie wraps (not included) and you are ready to test....

NOTE:

Please be aware that some E39 5 series cars were delivered without what is called an "SES jumper plug." This is a blue plug that attaches to the blue connector in the same area as the 25 pin black connector you just found for using our interface. This plug is necessary for your kit to function. It is BMW part number: 84110018038 and it costs \$8.00 to \$16.00



It often looks like:

Section 5: Configuration and testing

PAIRING: You have completed the hard part, now lets check to make sure it all works and “pair” your phone to your car.

1. First, get out the manual for your telephone – we can’t begin to list all procedures for the plethora of Bluetooth compatible phones out there.
2. You will need to enable BT (Bluetooth) on your phone.
3. Get your phone on the page that encompasses “pairing with a handsfree or headset device.”
4. Turn on the car’s ignition (it should have been off for at least 5 minutes).
5. Push and hold the small “talk” (button symbol looks like someone speaking) phone button on the steering wheel. While holding the small button in, push and release the big R/T button. Release the small “Talk” phone button. You should hear a quick series of beeps.
6. After about 5 seconds, the kit goes through another sequence of beeps, then in about 10 more seconds, “BTPAIRING” will be on the radio. NOTE: Radio display is only applicable to late model 5 series cars.
7. Turn off your car ignition and do not operate anything on the car for 5 minutes. I.e. do not open/close any doors or door locks. Remember that the interface is designed to stay active not only when the ignition is on but when it senses any traffic on the car’s data network. We want to ensure that the interface powers down completely before we go to the next step.
8. Turn your ignition back on. Start the pairing sequence on the phone. You should now have your phone search for a new device. It will then prompt you to enter a passcode to “pair.” The passcode for the HCB-30 is 0000. You may need to do this more than once for it to be accepted. You will then have to connect to the found device (should be displayed in the phone as “HCB-30”) from the phone the first time.

Sometimes this requires multiple attempts – depends of phone model.

9. Once you have added the HCB-30 to your device list, take the ignition key out and wait 5 minutes. If you wish to pair more than one phone to the kit, please see the notation at the end of this section.
10. Once this is complete, your phone and the car are linked. The phone and the car will automatically connect and you will be ready to place and receive calls (automatic connection is dependent on the BT kit you are using, the phone model, and the phone’s settings – some require you to press the “Talk” button to connect).
11. There are likely other options for your specific phone, including the choice whether to “pair” automatically. Review these and set them to your liking – it may take a bit of trial and error to determine the best settings for your needs.

Ok, now its time to try your phone via your steering wheel! If you are familiar with the operation of the HCB-30, the easiest thing to remember is that the small “talk” button simulates pushing the top button on the HCB-30. This button is used for answering calls, activating voice dial, connecting to a paired phone, and on some phones hanging up a call. The R/T button in most cases simulates the bottom button on the HCB-30 and is used for hanging up the call with some phones. Please refer to the manual that came with the HCB-30 for more details.

Voice dial:

1. Push and hold the phone button until the beep and a short mute on the radio. Release the phone button.
2. The kit mutes the radio again and makes another beep. Say the voice tag to dial.

Assuming that you have some voice dial entries in your phone, say them and your call should then begin. In some cases, your radio may begin playing again until the call is answered (while ringing). The other button would be used in this case to end the call. Some phones permit the re-activation of voice command or dial whilst in the middle of a call – this would be useful for example if you have to place a call to your voicemail

at the office and then enter a string of numbers for your password.

When a call comes in, press the small “talk” to pick up the call and press it again or the R/T button to end the call (phone dependent). You can also place a call from the phone keypad as well. The choice to have the call automatically routed through the car should be configurable in your phone. Your steering wheel volume control buttons affect the volume of the caller’s voice and the volume of the ringer. However, you can only set the volume during a call (when the radio is muted) – you will notice a beep once you reach the minimum or maximum of the volume range. Please visit our website for answers to some typical questions about voice dial, phone placement, etc. There are a number of inherent factors and variables in phone/BT compatibility, voice recognition ability, audio quality, and RF interference for which we cannot be held responsible; nor to which do we make any guarantee.

Additional PAIRING Notation:

Pairing your car and phone from the driver’s seat using the steering wheel buttons is designed for pairing only one phone to the car. Each time you follow this sequence you remove any paired phones that have previously been set up. Should you need to pair multiple phones to the car (i.e. one for you and one for your spouse). You will need to follow the directions in your HCB-30 manual. You will also need to use the button set from the HCB-30 to do this. Simply unplug the RJ-45 type connector and plug in the button. You can do everything from the trunk and when you are done, replace the RJ-45 connector and use the phones and car-kit as normal.

Section 6: Warranty Information

We stand behind every module we produce and we want you to feel that you have made a sound decision to purchase from us. We are grateful that you have taken one further step to safer driving and encourage you to remember that your first priority is always to driving your car, being attentive, and being safe.

We warrant this product against defects in material and workmanship as follows:

Your module is backed by our 90 day performance warranty – this includes repair or replacement for failures resulting from defects in manufacture. If, upon return of product, it is determined to be defective, European Integrated Systems, Ltd. (“EIS”) will repair or replace the Product at no charge during the warranty period.

EIS will also provide free software upgrades if they become available during your warranty period.

This warranty does not cover cosmetic damage or damage due to improper installation, to acts of God, accident, misuse, abuse, negligence, commercial use, or modification of, or to any part of the Product.

We also provide you with the opportunity to return your kit within 30 days if the product fails to do what we say it will do. Refund of the purchase price less 5% restocking charge will be refunded via the method of purchase.

We cannot be held responsible for failures resulting from installation errors or modifications.

To the extent permitted by law, all warranties are waived, other than the warranty stated above. The warranties of merchantability and fitness for a particular purpose are waived to the extent provided by law.

Product Disclaimer

Repair or replacement as provided under the warranty (above) is the exclusive remedy of the consumer. EIS shall not be liable for any incidental damage, including but not limited to damage, real or perceived, to your vehicle due to installation and use of this product, or consequential damages for breach of any expressed or implied warranty on this product. Except to the extent prohibited by applicable law. To the extent permitted by law, all warranties are waived, other than the warranty stated above. The warranties of merchantability and fitness for a particular purpose are waived to the extent provided by law.

We cannot guarantee that you will have perfect success in voice dial recognition – this is a function of not only the BT module but also the phone itself and the conditions (background noise). Road and wind noise play a factor as well.