

Bluetooth Gateway for Audi User Manual







Congratulations on purchasing a mObridge Bluetooth Gateway for your Audi. The mObridge Bluetooth Gateway allows for full hands-free phone control using the existing radio and steering wheel controls in your Audi vehicle.





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## About this Manual

- This booklet contains important information and warnings on using your mObridge Bluetooth kit in your Audi.
- The booklet is designed to fit into your Audi User Manual folder. We recommend adding this booklet to your Audi User Manual folder for further reference.
- Some illustrations may vary from your vehicle. You should therefore regard illustrations as a general guide.
- Refer to the separate mObridge Bluetooth for Audi: Installation document for the installation instructions.
- > An alphabetical index can be found at the end of the guide.



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## **Getting Started**

## Supported Equipment

The mObridge Bluetooth kit supports the following equipment:

- RNS-E
- BNS 5.0
- Chorus II+, Chorus III
- Concert II+, Concert III
- Symphony II+, Symphony III

### Features

- Hands free functionality
- Dial Numbers
- Access your phone book
- Answer and Reject Incoming Calls
- On-board DSP (digital signal processor) for advanced noise-free audio.



## Steering Wheel Controls

Applies to vehicles: with steering wheel controls.

The mObridge Bluetooth kit can be controlled via the steering wheel controls in your vehicle. An example of the steering wheel controls is found in the diagram below. Your controls may differ slightly from shown, but the basic operation will remain the same.



**NOTES** Steering wheel controls and vehicle display may differ between Audi models. This may slightly change the operation of the mObridge Bluetooth kit between vehicles.

## Head-Unit Control

Applies to vehicles: with RNS-E, BNS 5.0, Concert III, Symphony III

It is also possible to control the telephone operation using the head unit. Only head units featuring a telephone mode provide this functionality.

### **Base Model Radios**

Applies to vehicles: without telephone controls on the head-unit

Audi base-model radios (i.e. those without telephone controls) are not capable of controlling the telephone. In this case the telephone must be operated only using the steering wheel controls and cluster display.

## Pairing your Bluetooth Phone

#### Applies to vehicles: All

To pair your Bluetooth phone with the mObridge Bluetooth kit, you will need to do the following:

- 01 Turn ignition on.
- 02 Using the Bluetooth features of your phone, perform a search for new devices.
- 03 Your Bluetooth phone should find a device named "CAR BT". Connect to this device.
- 04 When prompted for a passkey, enter 1234 which is the default passkey.
- 05 Your phone should now connect to the mObridge kit where it can then be accessed using the steering wheel or the radio controls.

#### NOTES

- Please consult your phone's user manual if you have trouble searching for the mObridge device from your phone.
- A maximum of 5 Bluetooth devices can be paired with the mObridge system at any time. To pair an additional device, one or more of the existing pairings will need to be deleted from the mObridge, or the factory settings of the mObridge need to be restored.
- For some phones, you must manually allow the phonebook synchronization to occur, by pressing "OK" on the phone.



## Connecting a Phone

When no phone is connected to the system, this will be indicated on both the MFD and also the head-unit (if head-unit features telephone controls).

When a phone is connected, the current phone name, signal strength, and network name will be sent to your vehicle, provided the phone supports this.



### Automatic Connection & Disconnection

Now that the phone has been paired to the system, it will connect and disconnect automatically when ignition is turned on/off.

When the key is inserted and ignition is on, mObridge will begin searching for all paired devices, beginning with the most recent one connected. It will do this until a connection has been made. When ignition is switched off and the key is removed, mObridge will disconnect from any connected phone. If a call is ongoing at this time it will transfer to private mode on the handset.

#### NOTES

Some phones do not support automatic connection – for these phones you will need to manually connect to mObridge using the controls on your phone.

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## Operation: Combi-instrument Display

Applies to vehicles: with DIS display

## Menu Structure

Applies to vehicles: All – except A4(B8), A5, Q5

#### Main Menu

The following menus are available in the Telephone menu on the combi-instrument. When a phone is connected the entire menu is available.

Phonebook	See page 08
Dialed List	See page 10
Received Calls	See page 10
Missed Calls	See page 10
Settings Menu	See page 11

#### NOTE

In A4(B8), A5, Q5 vehicles, the DIS telephone display is controlled by your radio. Please refer to your vehicle documentation for the menu structure in these vehicles. For instructions on changing telephone settings in these vehicles, please refer to the Installation guide.

When no phone is connected, only the Settings Menu is available.



Telephone Menus FIG 04

## Making a Telephone Call From the Phonebook

Applies to vehicles: All

It is possible to dial a number from the phonebook of the connected phone using the steering wheel buttons.

#### NOTES

- Your Bluetooth phone must support phonebook sync to use this feature.
- It may take a few minutes for your phonebook to be available after connecting your phone, depending on the size of your phonebook.
- 01 Enter Telephone Menu on the DIS using the [MODE] button on the steering wheel.
- **02** Using the scroll wheel, select Phone Book. The names from your phonebook menu will be displayed on the cluster.
- 03 Press the Scroll Wheel to select the phonebook entry you wish to dial.

## Accepting an incoming call using the steering wheel

Applies to vehicles: All

An incoming call will cause the radio to mute and a ring tone to be audible. An incoming call display will be displayed.

• An incoming call can be accepted by pressing the scroll wheel on the steering wheel.

- 04 If there are more than 1 phone numbers associated with this entry, select the number use wish to dial using the Scroll Wheel and buttons.
- **05** On selecting the number to dial, the your phone will begin dialling the number.

#### TIPS

- If you have a large phonebook, you can scroll through it quickly by flicking the Scroll Wheel quickly This will skip through the phonebook by first letter.
- The system will synchronize up to 1000 entries from your phonebook. Each entry can have 4 phone numbers assigned to it.

## Ending a telephone call using the steering wheel

Applies to vehicles: All

• An active call can be ended using the scroll wheel on the steering wheel.

## Accessing Call Lists Using the Steering Wheel

Applies to vehicles: All

mObridge will synchronize the Last Dialled, Missed, and Answered Call lists with your phone. If a number is known from your phonebook, then the caller name will be displayed in addition to the number

#### Dialing a number from a Call List using the steering wheel controls

- 01 Enter Telephone Menu on the DIS using the [MODE] button on the steering wheel.
- 02 Using the [SCROLL] button scroll down to Last Dialed, Missed Calls, or Answered Calls options, and press the [SCROLL] button to select.
- 03 Use the [SCROLL] button to select an number, and press it to dial.

#### NOTES

Not all phones support the synchronization of call lists over Bluetooth. For phones that do not support this feature, only calls made while the phone is connected to the vehicle will be contained in the call lists.



## Changing System Settings Using the Steering Wheel

Applies to vehicles: All – except A4(B8), A5, Q5

It is possible to change some of the system settings of the mObridge system. Settings are available in the System->Settings menu on the MFD.

The settings can be changed even when no phone is connected.

It is also possible to use the "mObridge Wizard" to change the system settings over a USB or Bluetooth connection. Please consult the install manual for details.

#### NOTE

In A4(B8), A5, Q5 vehicles, the DIS telephone display is controlled by your radio, and the mObridgespecific settings menus are not available. Language Settings on these vehicles are determined from the vehicle. For instructions on changing telephone settings in these vehicles, please refer to the vehicle hand book.

#### System Settings Options **Telephone Volume** 01 - 15 Volume level during a call. **Ring Volume** 01 - 15 Volume level of ringing. Prompt Volume. 01 - 15 Volume level of prompt beeps. 01 - 63 A2DP Streaming Volume Volume level of A2DP streaming for ring tones 01 - 15 Microphone Gain Controls the volume of the microphone audio from the mObridge. English Language German Sets the operating language. French Spanish Italian Dutch Factory Reset

Resets settings back to system defaults, and deletes all Bluetooth pairings.

## **Operation: Head Unit**

Applies to vehicles: with RNS-E, BNS 5.0, Concert III, Symphony III

## Making a telephone call from the phonebook

Applies to vehicles: with RNS-E, BNS 5.0, Concert III, Symphony III

#### 01 Select the phonebook menu.

02 Select the phonebook entry and number you wish to dial

#### NOTES

- Your Bluetooth phone must support phonebook sync to use this feature.
- It may take a few minutes for your phonebook to be available after connecting your phone, depending on the size of your phonebook.



## Dialing a telephone number

Applies to vehicles: with RNS-E, BNS 5.0, Concert III, Symphony III

- 01 Using the control knob, enter the telephone number you wish to dial.
- 02 Use the dial button to dial it.





## Accepting/Rejecting an Incoming Call

Applies to vehicles: with RNS-E, BNS 5.0, Concert III, Symphony III

- Select Answer to answer the call.
- Select Reject to reject the call to voice mail.



## Ending a telephone call

Applies to vehicles: with RNS-E, BNS 5.0, Concert III, Symphony III

#### Press the End call button.

## Sending DTMF tones

Applies to vehicles: with RNS-E, BNS 5.0, Concert III, Symphony III

 While in a phone call, DTMF tones can be sent using number select wheel.



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## Call Lists

Applies to vehicles: with RNS-E, BNS 5.0, Concert III, Symphony III

- 01 Enter the phonebook menu, and select the call list you wish to view.
- 02 In the call list, select the number to dial it.

#### NOTES

- Not all phones support the synchronization of call lists over Bluetooth. For phones that do not support this feature, only calls made while the phone is connected to the vehicle will be contained in the call lists.
- Call Lists may take several minutes to synchronize with the phone.





## Software Update Troubleshooting

Applies to vehicles: All

From time to time mObridge will release software updates for mObridge Bluetooth for Volkswagen. These software updates will provide support for new Bluetooth phones as well as adding support for new vehicles.

#### There is never any need to return the unit to mObridge to update it.

This is important as it helps to future-proof your investment.

#### Software updates can be performed in 2 ways:

- 01 If your mObridge has an SD-card slot equipped, insert an SD-card with the new software into the SD-card slot to automatically update the device.
- 02 If your mObridge has a micro-USB connector, connect the mObridge to a PC with the mObridge Update Wizard installed

In either case, the latest software together with update instructions are available on our website. www.mobridgeinc.com

Applies to vehicles: All

#### Unable to pair a device

You already have five devices paired to mObridge. The system can only support five paired devices so you must delete an existing device.

#### Phone book not appearing

- Your Bluetooth phone does not support phonebook sync.
- It may take several minutes for your phone book to sync, especially with very large phone books.

#### Call lists not appearing or updating

Your phone does not support the synchronization of phone lists.

#### SMS not appearing

- Your Bluetooth phone does not support SMS.
- SMS may take a minute or two to synchronize with the phone.

## Warranty

Your mObridge audio interface is warranted against any manufacturing defects for a period of 12 months from purchase. Any part of the mObridge audio interface may be replaced or repaired at the discretion of the manufacturer after such part is deemed to have a manufacturing fault.

If you have any questions about your mObridge audio interface, please contact your local service agent, whose details are attached to the back page of this user instruction manual.

## FCC information

Applies to US customers only

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 interface 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

#### WARNING:

 Any changes or modifications not expressly approved by mObridge, Inc. could void the user's authority to operate this equipment.

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# Audi

## Installation Instructions

- Version 1.1
- Bluetooth Gateway M1000-C-BT1-AUD1



## **Kit Contents:**

- Bluetooth ECU
- Microphone
- Vehicle Interface Loom
- Operating Manual

### **Tools/Ancillaries Required:**

- Panel Removal tools
- Torx screwdriver
- Vehicle Diagnosis Computer, e.g. VAS 5052 or PC with VCDS VAG-COM software
- Double Sided fixing tape

## **Vehicle Requirement:**

Installation can be carried out in vehicles with the following specification:

- Multi Function Steering Wheel & Driver Information Display (DIS) with either of the following Audio systems: Chorus 2+, Concert 2+, Concert 3, Symphony 2+, Symphony 3, RNS-E OR
- Vehicles WITHOUT Multi Function Steering Wheel and Driver Information Display (dis) with the following audio systems **RNS-E**

When fitted to vehicles WITHOUT Multi Function Steering Wheel and Multi Function Display Plus (MFD+) the Phone System operation is limited to the head unit controls.

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#### PLEASE NOTE:

- Installation of the Integrated Bluetooth Hands-free Phone System should be carried out by a competent workshop. Special tools, diagnostic equipment and special literature specific to the car is required for fitting.
- Incorrect installation can result in damage to the vehicle or the product.
- After completing the installation the car must be coded for operation with the Bluetooth system using a diagnostics, measuring and information system
- Secure all cables and harnesses so that they cannot come into contact with any rotating or other moving parts and so that they cannot chafe on any sharp metal or plastic edges.

## **1.1** General preparation of the vehicle for installation of the components

- · Switch off the ignition and all electrical equipment
- Remove the radio/radio navigation system (refer to vehicle repair manual)
- Remove any existing hands-free phone system that is connected to the CANBUS wiring and do not re-install it as it will conflict with the Bluetooth Gateway system.

### **1.2 Mounting the Bluetooth ECU**

- Clean the underside of the Bluetooth ECU with a clean towel and alcohol, and then attach double sided fixing tape to the underside of the Bluetooth ECU.
- Mount the ECU with the sockets facing upwards (if ECU is to be mounted vertically) so that the plugs cannot fall out.
- Please see pictures **Section 1.8** for vehicle specific ECU mounting positions.

### **1.3 Routing the Vehicle Interface Loom**

- Route the QUADLOCK Plug/Socket end of the Vehicle Interface Loom from behind the head unit to the location of the Bluetooth ECU.
- Secure the Vehicle Interface Loom using the supplied cable ties within the dashboard to the existing wiring/wiring looms.

## **1.4 Connecting the Vehicle Interface Loom** to the Radio/Radio Navigation unit.

- With the Radio/Radio Navigation unit removed, connect the socket side of the Vehicle Interface Loom to the plug that usually connects to the radio/radio navigation system.
- Connect the plug side of the vehicle interface loom to the radio/radio navigation unit.

## **1.5 Microphone Installation**

- Please see Section 1.9 for vehicle specific Microphone mounting positions.
- Clean surface that the microphone is to be mounted to with alcohol and clean towel.
- Once the Microphone is mounted in the correct position, route the cable to the Bluetooth ECU location.
- Secure the microphone cable using the supplied cable ties within the dashboard to the existing wiring/wiring looms.
- Connect the microphone plug to the Bluetooth ECU 2.5mm microphone socket.
- Bundle any spare microphone cable together and cable tie to the Vehicle interface loom.

## **1.6 Coding the vehicle for Telephone**

- Connect a vehicle diagnosis, measurement and information system to the vehicle.
- Select the operating mode "Self Diagnosis"

NOTE: 'X' denotes digits in the coding which vary depending on the vehicle

## **Head Unit Coding**

The following head units require coding, if not listed here they do not need coding.

#### • RNS-E Head Unit

Address 56 (Radio) OXXX?XX- Digit marked ? Has to be changed to **7** The RNS-E head unit need to have a software index of at least 350. RNS-E RESET After coding you need to complete a RESET of the head unit. Please turn the device off. When the head unit is turned back on keep the ON/OFF button held down for 45 seconds until the head unit resets.

#### Concert 2+, Symphony 2+

Address 56 (Radio) 0?XXXX- Add **4** to the existing value of ? (e.g. 3 to 7)

 Concert 3, Symphony 3 – only for A4 8K, A5 8T, A5 8F, Q5 8R Address 56 (Radio)

-Select Coding

-Select master

-Select Byte 3

-Change value of Byte 3 from 10000000 to 10000010

Address 47 (Sound system)

- only for A4 8K, A5 8T, A5 8F, Q5 8R with B&O sound system

-Select Byte 3

-Set Bit 0 to 1

-Set Bit 1 to 0

### **Chassis Coding**

- Chassis A4 8E and A6 4B
   Address 17 (Instrument cluster)
   Channel 62, add 2 to the existing value (e.g. 17 to 19)
- Chassis A4 8E
   Address 16 (Steering Wheel)
   02XXX- change 02XXX to 03XXX
- Chassis A6 4B and A8 4D
   Address 16 (Steering wheel)
   OXXX2- change OXXX2 to OXXX1
- Chassis A38P,TT8J,A48K,A58T,A58F,Q58R
   Address 19 (CAN gateway)
   Select Address 19 Diagnostic Interface Databus
  - Select Coding
  - Option 77 Telephone
  - Set option 77 to coded.

### **1.7** Functional test and final fitting

- Check the function of the Integrated Bluetooth Hands-Free Phone System by pairing a mobile telephone to the system (Bluetooth ID is BT Gateway, PIN code is **1234**) and then make a call. End the call via the Multi Function Steering Wheel.
- Test the answering function by calling the paired mobile telephone from another phone and answering using the Multi Function Steering Wheel.
- While on the call test the microphone and the speaker system (make sure you can hear the caller and that they can hear you)
- While the mobile telephone is paired, turn the ignition off and remove the key. The mobile telephone should disconnect from the Bluetooth system. Leave the ignition off for 30 seconds and then switch it back on. The mobile telephone should re-connect with the system within 90 seconds.
- If the vehicle has an RNS-E head unit or is an A4/A5/Q5 with Concert3 or Symphony3 please ensure that the phone operating console is displayed on the screen when the PHONE button (on the radio control panel) is pressed.
- Refit the radio/radio navigation unit and all other trim panels that were removed. (refer to the vehicle repair manual)

### **1.8 Vehicle Specific ECU Mounting Locations**



1A A3 (8P), TT (8J) Remove bolt behind trim panel & two bolts underneath dash.



1B A3 (8P) Location: Mounted to dash support brace using double-sided tape.



1C A4 (8K) A5 (8T & 8F) Q5 (8R) Remove bolt behind trim panel & two bolts underneath dash.



**1D** A4 (8K) A5 (8T & 8F) Q5 (8R) Location: Mounted to dash support brace using double-sided tape.



1E A4(B7) Location: Mounted to dash support brace using double-sided tape.

**Bluetooth Gateway** 

### **1.9 Vehicle Specific Microphone Mounting Locations**



2A A3 (8P) Location: Attached to trim panel with wire routed behind trim panel.



2B A4 (8K) A5 (8T & 8F) Q5 (8R) Location: Attached to steering column shroud with wire routed behind vinyl.



2C A4(B7) Location: Attached to trim panel with wire routed behind trim panel.





Bluetooth Gateway for Volkswagen User Manual







Congratulations on purchasing a mObridge Bluetooth Gateway for your VW. The mObridge Bluetooth Gateway allows for full hands-free phone control using the existing radio and steering wheel controls in your VW vehicle.





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## About this Manual

This manual contains important information and warnings on using your mObridge Bluetooth for Volkswagen. Please read this manual carefully to insure you are using the mObridge kit correctly and utilising its many features.

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#### SPECIALLY DESIGNED

The booklet is designed to fit into your Volkswagen's User Manual folder. We recommend adding this booklet to your Volkswagen User Manual folder for further reference.

### MOBRIDGE MANUAL

Add the mobridge manual to your Volkswagen User Manual Folder.

#### **INDEX**

An alphabetical index can be found at the end of the guide.

#### INSTALLATION

Refer to the separate *mObridge Bluetooth for Volkswagen: Installation* document for installation instructions.

#### ILLUSTRATIONS

Some illustrations may vary from your vehicle. You should therefore regard illustrations as a general guide.

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## **Getting Started**

## Supported Equipment

The mObridge Bluetooth kit supports the following equipment:

#### MFA+ (White) with multi-function steering wheel

The white MFA+ has been introduced with the new Golf VI and Passat CC. mObridge Bluetooth for Volkswagen is fully compatible with this system.

#### MFA+ (Color) with multi-function steering wheel

The Touareg features a wider color cluster display. mObridge Bluetooth for Volkswagen is fully compatible with this system. Note that the Touareg steering wheel features a scroll wheel rather than individual up/down buttons, however the operation is the same.

#### MFA+ (Red) with multi function steering wheel

The Red MFA+ is being phased out in favor of the White MFA+, however mObridge Bluetooth is fully compatible with this system.

#### RNS-510 / RCD-510

Both of these touch-screen head-units provide telephone functionality.

#### Vehicles without any of the above

It is possible to install a mObridge Bluetooth without any of the above equipment. In this case the mObridge Bluetooth will perform like a basic hands-free system, with call answer and hang-up using the stalk control, and the ability to launch the voice-recognition function of your phone.



### Features

The accessible mObridge features will differ depending on the equipment specification of your vehicle. In a fully equipped Volkswagen, with MFA+ and RNS-510/RCD-510, all mObridge features are available. In a base-model Volkswagen, only the basic hands-free features are accessible.

The following table shows the accessible phone features in your vehicle.

Features	MFA+	RNS-510/RCD-510	Lowline MFA with Stalk Controller
<ul> <li>Full hands-free audio with on-board DSP</li> </ul>	✓	✓	✓
Dial Numbers	✓	✓	✓
Access your phone book	✓	✓	×
Answer Incoming Calls	✓	✓	✓
Reject Incoming Calls	✓	✓	×
Hangup calls	✓	✓	✓
<ul> <li>Modify phone book numbers before dialing</li> </ul>	✓	<b>v</b>	×
> SMS	<b>√</b>	×	×
<ul> <li>Launch phone's voice recognition</li> </ul>	✓	×	✓

## Steering Wheel Controls

Applies to vehicles: with multi-function steering wheel and MFA+ in the combi-instrument.

The mObridge Bluetooth kit can be controlled via the steering wheel controls in your vehicle. An example of the steering wheel controls is found in the diagram below. Your controls may differ slightly from shown, but the basic operation will remain the same. Using the steering wheel controls, the telephone functionality is displayed on the MFA+ in the combi-instrument display.



**NOTES** Steering wheel controls and vehicle display may differ between Volkswagen models. This may change the operation slightly of the mObridge Bluetooth kit between vehicles.

menu. If your steering wheel does not have a back button you can still go back to the previous menu using the <<Back menu option or a long-press of the OK button.

which can be used to quickly go back to the previous

Some steering wheels have a  $\boxdot$  back button



## Stalk Controls

Applies to vehicles: with stalk controls

The mObridge Bluetooth kit can be controlled via the stalk controls in your vehicle (if equipped).



## Stalk Controls with MFA+

With an MFA+, the stalk controls allow the user to navigate the Telephone menu.

- Press UP/DOWN to navigate the menu.
- Pressing the OK button will enter a menu option.
- Holding the OK button will go back out of a menu.
- Exiting telephone mode can be achieved by holding UP.

## Stalk Controls with lowline MFA

If you have a lowline MFA, then a double-click of the OK button is used to answer calls, end calls, and launch the phone's voice recognition.

- > When a call is ringing, double-click the OK button to answer it.
- When a call is in progress, double-click the OK button to end it.
- When no call is active, double-click the OK button to start your phone's Voice Recognition – provided your phone supports this option – refer to pg 09

## RNS-510 & RCD-510

## Applies to vehicles: with RNS-510 or RCD-510 touch-screen head-units.

In case the vehicle is also equipped with the RNS-510 or RCD-510 head units, then telephone functionality is also available via the "PHONE" menu on these devices.

The functionality provided by mObridge is identical to the factory telephone for the RNS-510 and RCD-510. You can refer to the respective user manual for your RNS-510 or RCD-510 for further information.

## Base Model Radios

Applies to vehicles: without RNS-510 or RCD-510 touch-screen head-units.

Volkswagen base-model radios (i.e. those without a touch-screen display) are not capable of controlling the telephone. In this case the telephone must be operated only using the display on the MFA+.

During an active call, the radio will display the text "PHONE" and the volume controls on the radio will change the volume of the call.

## Pairing your Bluetooth Phone

Applies to vehicles: All

To pair your Bluetooth phone with the mObridge Bluetooth kit, you will need to do the following:

- 01 Turn ignition on.
- 02 Using the Bluetooth features of your phone, perform a search for new devices.
- 03 Your Bluetooth phone should find a device named "CAR BT". Connect to this device.
- 04 When prompted for a passkey, enter 1234 which is the default passkey.
- **05** Your phone should now connect to the mObridge kit where it can then be

accessed using the steering wheel or the radio controls.

#### NOTES

- Please consult your phone's user manual if you have trouble searching for the mObridge device from your phone.
- A maximum of 5 Bluetooth devices can be paired with mObridge Bluetooth at any time. If a 6th device is paired with the system, the least used pairing will be deleted from the mObridge Bluetooth.
- For some phones, you must manually allow the phonebook synchronization to occur, by pressing
   on the phone.

### Phone Not Connected Display

When no phone is connected to the system, this will be indicated on both the MFA+ and also the RNS-510/RCD -510 if equipped.



MFA+ Display



## Phone Connected Display

When a phone is connected, both the MFA+ and RNS-510/ RCD-510 will display the current phone name, signal strength, and network name – provided your phone supports the sending of this information over Bluetooth.





## Automatic connection & Disconnection

Now that the phone has been paired to the system, it will connect and disconnect automatically when ignition is turned on/off.

When the key is inserted and ignition is on, mObridge will begin searching for all paired devices, beginning with the most recent one connected. It will do this until a connection has been made. When ignition is switched off and the key is removed, mObridge will disconnect from any connected phone. If a call is ongoing at this time it will transfer to private mode on the handset.

#### NOTES

Some phones do not support automatic connection – for these phones you will need to manually connect to mObridge using the controls on your phone.

### Voice Recognition

If your phone has a voice recognition function, and your phone supports this functionality over Bluetooth, it is possible to launch your phone's voice recognition via the vehicle controls.

Note that not all phones support this functionality. Consult the manufacturer of your phone for more information.

To launch the voice recognition of your phone:

- **01** Ensure that a phone that supports this functionality is connected to the mObridge device.
- 02 On vehicles equipped with steering wheel controls, a long press of the *⊘* button when not in a call will launch the voice recognition.
- **03** On vehicles equipped with the stalk control, a double-click of the OK button when not in a call will launch the voice recognition.

## **Operation: Combi-instrument Display**

Applies to vehicles: with MFA+ in the combi-instrument

### Menu Structure

Applies to vehicles: with MFA+ in the combi-instrument.

#### Main Menu

The following menus are available in the Telephone menu on the combi-instrument. When a phone is connected the entire menu is available.

Display the phonebook	See page 9
Display the last dialed numbers call list	See page 12
Display the last received calls list	See page 12
Display the missed calls list	See page 12
Dial a phone number	See page 10
Display SMS messages	See page 13
Access Bluetooth settings	See page 14
Displays product version information.	
Reset mObridge Bluetooth to factory defaults.	
Change System Settings	See page 14
	Display the phonebook Display the last dialed numbers call list Display the last received calls list Display the missed calls list Dial a phone number Display SMS messages Access Bluetooth settings Displays product version information. Reset mObridge Bluetooth to factory defaults. Change System Settings

When no phone is connected, only the System and Settings menus are available.

PHONE		
Main Menu		
Phonebook <		
Dialed List		
Received List		
Main Menu FIG 05		

## Making a telephone call from the phonebook

Applies to vehicles: with MFA+ in the combi-instrument

It is possible to dial a number from the phonebook of the connected phone using the steering wheel buttons.

#### NOTES

- ▶ Your Bluetooth phone must support phonebook sync to use this feature.
- It may take a few minutes for your phonebook to be available after connecting your phone, depending on the size of your phonebook.
- 01 Enter Telephone Menu on the MFA+ using the ④ and ▷ buttons on the steering wheel.
- **02** Press 📧 to enter the telephone menu.
- O3 Using the 
   button scroll down to Phonebook. The phonebook menu will appear. (see figure 06)
- 04 Press imes to select the phonebook entry you wish to dial.
- 05 If there is more than one phone number associated with this entry, select the number you wish to dial using the △ and ⊽ buttons.

06 Press the 🔍 button or the 🖉 button to dial.



#### TIPS

- If you have a large phonebook, you can scroll through it quickly by holding down the △ or ▽ buttons. This will skip through the phonebook by first letter.
- You can edit a phone number before dialing by selecting the "Edit and Dial" option before dialing.
- The system will synchronize up to 1000 entries from your phonebook. Each entry can have 4 phone numbers assigned to it.

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## Dialing a telephone number

Applies to vehicles: with MFA+ in the combi-instrument.

It is possible to dial any number from both the steering wheel and RNS-510/RCD-510 if equipped.

## Dialing a number using the steering wheel controls

- 01 Enter Telephone Menu on the MFA+ using the ⊲ and ▷ buttons on the steering wheel.
- **02** Press 📧 to enter the telephone menu.
- O3 Using the 
   button scroll down and select the Dial Number menu using the 
   button.
- 04 Using the △ and ♥ buttons on the steering wheel, select numbers you wish to add to the phone number to dial by pressing the ∞ button. Select the [DEL] menu entry to delete the last number.



## Accepting an incoming call

Applies to vehicles: with MFA+ in the combi-instrument.

An incoming call will cause the radio to mute and a ring tone to be audible. An incoming call display will be displayed.

#### **Option 01**

An incoming call can be accepted by a short press on the D button on the steering wheel.

#### Option 02

An incoming call can be accepted by selecting the Answer option from the incoming call screen that is displayed on the MFA+.

## Rejecting an incoming call

Applies to vehicles: with MFA+ in the combi-instrument.

An incoming call can also be rejected. It depends on your network provider as to what this does, but usually the caller will go straight to your voice mail.

#### **Option 01**

An incoming call can be rejected by a long press (3 seconds) on the *D* button on the steering wheel.

#### Option 02

An incoming call can be rejected by selecting the Reject option from the incoming call screen that is displayed on the MFA+.

## Ending a telephone call

Applies to vehicles: with MFA+ in the combi-instrument.

Briefly press the  $\ensuremath{\mathscr{D}}$  button on the steering wheel.

## Sending DTMF tones

Applies to vehicles: with MFA+ in the combi-instrument.

Pressing the number keys during a phone call can be used to send DTMF tones. DTMF Tones can be used to navigate Call Centre and voicemail menus for example.

#### Sending DTMF tones using the steering wheel controls:

- 01 When in a call, use the <a>[]</a> and <a>[]</a> buttons on the steering wheel to display the active call screen.
- 02 Use the △ and ▽ buttons to select the Send DTMF menu, and press the <sup>™</sup> button to select it and enter the DTMF menu.
- **03** Within the DTMF menu. use the  $\triangle$  an ☑ buttons on the steering wheel to select numbers to send. When you are done, you can use the <<Back menu option to return to the previous screen.

### Call Lists

Applies to vehicles: with MFA+ in the combi-instrument.

mObridge will synchronize the Last Dialed, Missed, and Answered Call lists with your phone. If a number is known from your phonebook, then the caller name will be displayed in addition to the number.

#### Dialing a number from a Call List using the steering wheel controls

- 01 Enter Telephone Menu on the MFA+ using the  $\bigtriangleup$  and  $\bigtriangledown$  buttons on the steering wheel.
- **02** Press 📧 to enter the telephone menu.
- **03** Using the **▽** button scroll down to Last Dialed, Missed Calls, or Answered Calls options, and press the or button to select.
- 04 Use the 💌 button or the 🖉 button to dial

#### NOTES

Not all phones support the synchronization of call lists over Bluetooth. For phones that do not support this feature, only calls made while the phone is connected to the vehicle will be contained in the call lists.



### SMS

Applies to vehicles: with MFA+ in the combi-instrument.

mObridge supports basic SMS functionality such as Reading and Deleting. New SMS messages will be flagged to the user.

SMS messages can only be accessed on the MFA+ using the steering wheel controls – the RNS-510 and RCD-510 do not have this functionality.

#### Accessing the SMS menu

To enter the SMS menu on the MFA+:

- 02 Press 📧 to enter the main telephone menu.
- O3 Press the ♥ button to scroll to SMS and use the ∞ button to enter the SMS menu.



#### **Reading SMS**

Use the  $\triangle$  and  $\nabla$  buttons on the steering wheel, together with the  $\bowtie$  button to select the SMS you would like to read.

When viewing SMS messages, press () to access available options to delete the message, place a call to the sender, or return to the previous menu.

Unread SMS messages that are viewed are marked as read on the phone.

#### **Deleting SMS messages**

Press <sup>™</sup> while viewing an SMS message, and select Delete from the popup menu. You will be asked to confirm before deletion.

#### Placing a call to the sender

Press is while viewing an SMS message, and select Place Call from the popup menu. Alternatively, press the [DIAL] button on the steering wheel.

#### NOTES

- Not all phones support SMS over Bluetooth. For phones that do not support this feature, this functionality will not be available.
- Extended SMS (greater than 160 characters) are not fully supported, and will appear as multiple SMS messages in the list.

## **Bluetooth Device Control**

Applies to vehicles: with MFA+ in the combi-instrument.

The MFA+ provides a Bluetooth menu that allows for the control of Bluetooth devices that the mObridge is paired with. You can view the list of devices and delete individual devices from the device list.

#### Accessing the Bluetooth Menu using the steering wheel controls.

- 01 Use the ⊲ and/or ⊳ buttons on the steering wheel to enter the telephone menu
- 02 If the phone is connected, you will need to press the or button to access the main phone menu.
- **03** Use the **∇** button to scroll down and select Bluetooth from the menu, and select it with the 🕅 button.

The Bluetooth menu shows a list of all connected devices. Select a device and press enter, and a sub-menu will appear with various options.

#### **Deleting a Bluetooth Device**

- 01 Access the Bluetooth menu using the directions above.
- 02 Select a Bluetooth device, and use the i button to open the sub-menu.
- 03 Using the 
   button, scroll down to Delete to delete the device.
- 04 A confirmation screen will appear. Select Delete again and the device will be deleted.

## **Changing System Settings**

Applies to vehicles: with MFA+ in the combi-instrument.

It is possible to change some of the system settings of the mObridge system. Settings are available in the System->Settings menu on the MFA+.

The settings can be changed even when no phone is connected.

System Settings	Options
Mic Gain	<b>01 - 15</b>
Controls the volume of the r	microphone
audio from the mObridge sy	/stem.
<b>Call Volume</b> Volume level during a call.	01 - 15
Ring Volume	01 - 15
Volume level of the internal	ring.
This is used if your phone do	bes not
send the ringtone via Blueto	both.
Beep Volume	<b>01 - 15</b>
Volume level of prompt bee	ps.
A2DP Volume	<b>01 - 63</b>
Volume level of ringtones i	f your
phone sends them via A2D	P (not
all phones provide this functi	onality).
Language	

Sets the operating language.



## Operation: RNS-510 & RCD-510

## Making a telephone call from the phonebook

Applies to vehicles: with RNS-510 or RCD-510 touch-screen head-units

- 01 Touch the Phonebook function key on the lower-right of the screen to show the phonebook menu. See Figure 09
- 02 In the phonebook menu, move the slider in the scrollbar down to display additional entries, or use the [SEARCH] function key to select entry by typing the first few letters of the name.
- **03** Touch a phonebook entry to dial the number associated with it.



## Dialing a telephone number

Applies to vehicles: with RNS-510 or RCD-510 touch-screen head-units

- **01** Touch the Keypad function key on the lower-left of the screen to display the dial number popup menu. See Figure 10
- **02** Dial the number you wish to dial using the keypad.
- 03 Touch the [CALL] function key to dial the number



## Accepting an incoming call

Applies to vehicles: with RNS-510 or RCD-510 touch-screen head-units

## Touch the green [DIAL/ANSWER] key to answer the call.

## Rejecting an incoming call

Applies to vehicles: with RNS-510 or RCD-510 touch-screen head-units

#### Touch the red [HANGUP] key to reject the call.

## Ending a telephone call

Applies to vehicles: with RNS-510 or RCD-510 touch-screen head-units

#### Press the red [HANGUP] button.

## Call Lists

Applies to vehicles: with RNS-510 or RCD-510 touch-screen head-unitsits

- **01** Touch the [CALL LIST] function key at the bottom of the telephone screen.
- 02 In the pop-up window that opens, select the call list you would like to access.
- **03** In the call list, touch the number to dial it.





## Software Update Troubleshooting

Applies to vehicles: All

From time to time mObridge will release software updates for mObridge Bluetooth for Volkswagen. These software updates will provide support for new Bluetooth phones as well as adding support for new vehicles.

#### There is never any need to return the unit to mObridge to update it.

This is important as it helps to future-proof your investment.

#### Software updates can be performed in 2 ways:

- 01 If your mObridge has an SD-card slot equipped, insert an SD-card with the new software into the SD-card slot to automatically update the device.
- 02 If your mObridge has a micro-USB connector, connect the mObridge to a PC with the mObridge Update Wizard installed

In either case, the latest software together with update instructions are available on our website. www.mobridgeinc.com

Applies to vehicles: All

#### Unable to pair a device

You already have five devices paired to mObridge. The system can only support five paired devices so you must delete an existing device.

#### Phone book not appearing

- Your Bluetooth phone does not support phonebook sync.
- It may take several minutes for your phone book to sync, especially with very large phone books.

#### Call lists not appearing or updating

Your phone does not support the synchronization of phone lists.

#### SMS not appearing

- Your Bluetooth phone does not support SMS.
- SMS may take a minute or two to synchronize with the phone.

## Warranty

Your mObridge audio interface is warranted against any manufacturing defects for a period of 12 months from purchase. Any part of the mObridge audio interface may be replaced or repaired at the discretion of the manufacturer after such part is deemed to have a manufacturing fault.

If you have any questions about your mObridge audio interface, please contact your local service agent, whose details are attached to the back page of this user instruction manual.

## FCC information

Applies to US customers only

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 interface 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

#### WARNING:

Any changes or modifications not expressly approved by mObridge, Inc. could void the user's authority to operate this equipment.

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# Volkswagen & Skoda

## **Installation Instructions**

Version 1.2

Bluetooth Gateway M1000-C-BT1-VW1/SK01



### **Kit Contens:**

- Bluetooth ECU
- Microphone
- Vehicle Interface Loom
- Operating Manual

## Kit Contens:

- Panel Removal tools
- Torx screwdriver
- Vehicle Diagnosis Computer, e.g. VAS 50....
- Double Sided fixing tape

## **Kit Contens:**

Installation can be carried out in vehicles with the following specification:

• Multi Function Steering Wheel and Multi Function Display Plus (MFD+) with either of the following audio systems, RCD300, RCD310, RCD500, RCD510 , RNS510.

#### OR

• Vehicles WITHOUT Multi Function Steering Wheel and Multi Function Display Plus (MFD+) with either of the following audio systems, RCD510, RNS510.

When fitted to vehicles WITHOUT Multi Function Steering Wheel and Multi Function Display Plus (MFD+) the Phone System operation is limited to the head unit controls. **NOTE:** Polo 6R Multi Function Steering Wheel PHONE button operates kit to hang-up/answer

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### **Procedure:**

#### PLEASE NOTE:

- Installation of the Integrated Bluetooth Hands-free Phone System should be carried out by a competent workshop. Special tools, diagnostic equipment and special literature specific to the car is required for fitting.
- Incorrect installation can result in damage to the vehicle or the product.
- Installation can only be carried out in vehicles with the following audio systems, RCD300, RCD310, RCD500, RCD510, RNS510.
- After completing the installation the car must be coded for operation with the Bluetooth
- system using a diagnostics, measuring and information system. Secure all cables and harnesses so that they cannot come into contact with any rotating or other moving parts and so that they cannot chafe on any sharp metal or plastic edges.

## **1.1** General preparation of the vehicle for installation of the components

- Switch off the ignition and all electrical equipment
- Remove the radio/radio navigation system (refer to vehicle repair manual)
- Remove any existing hands-free phone system that is connected to the CANBUS wiring and do not re-install it as it will conflict with the Bluetooth Gateway system.

### **1.2 Mounting the Bluetooth ECU**

- Clean the underside of the Bluetooth ECU with a clean towel and alcohol, and then attach double sided fixing tape to the underside of the Bluetooth ECU.
- Mount the ECU with the sockets facing upwards (if ECU is to be mounted vertically) so that the plugs cannot fall out.
- Please see pictures **Section 1.8** for vehicle specific ECU mounting positions.

### **1.3 Routing the Vehicle Interface Loom**

- Route the QUADLOCK Plug/Socket end of the Vehicle Interface Loom from behind the head unit to the location of the Bluetooth ECU.
- Secure the Vehicle Interface Loom using the supplied cable ties within the dashboard to the existing wiring/wiring looms.

## **1.4 Connecting the Vehicle Interface Loom** to the Radio/Radio Navigation unit.

- With the Radio/Radio Navigation unit removed, connect the socket side of the Vehicle Interface Loom to the plug that usually connects to the radio/radio navigation system.
- Connect the plug side of the vehicle interface loom to the radio/radio navigation unit.

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**Bluetooth Gateway** 

### **1.5 Microphone Installation**

- Please see Section 1.9 for vehicle specific Microphone mounting positions.
- Clean surface that the microphone is to be mounted to with alcohol and clean towel.
- Once the Microphone is mounted in the correct position, route the cable to the Bluetooth ECU location.
- Secure the microphone cable using the supplied cable ties within the dashboard to the existing wiring/wiring looms.
- Connect the microphone plug to the Bluetooth ECU 2.5mm microphone socket.
- Bundle any spare microphone cable together and cable tie to the Vehicle interface loom.

### **1.6 Coding the vehicle for Telephone**

- Connect a vehicle diagnosis, measurement and information system to the vehicle.
- Select the operating mode "Self Diagnosis"
- · Select the following menu points one after another
  - 19 Diagnostic Interface Databus
  - 007 Coding (Service \$1A)
  - 77 Telephone
- Set the Telephone to "coded".
- Then follow the queries and enter the relevant vehicle data.

## **1.7** Functional test and final fitting

- Check the function of the Integrated Bluetooth Hands-Free Phone System by pairing a mobile telephone to the system (Bluetooth ID is BT Gateway, PIN code is **1234**) and then make a call. End the call via the Multi Function Steering Wheel.
- Test the answering function by calling the paired mobile telephone from another phone and answering using the Multi Function Steering Wheel.
- While on the call test the microphone and the speaker system (make sure you can hear the caller and that they can hear you)
- While the mobile telephone is paired, turn the ignition off and remove the key. The mobile telephone should disconnect from the Bluetooth system. Leave the ignition off for 30 seconds and then switch it back on. The mobile telephone should re-connect with the system within 90 seconds.
- If the vehicle has a touch-screen radio/radio navigation system installed (RCD510/RNS510) please ensure that the phone operating console is displayed on the touch-screen when the PHONE button (on the radio control panel) is pressed.
- Refit the radio/radio navigation unit and all other trim panels that were removed. (refer to the vehicle repair manual)
- When final testing is complete and the operation has been verified as satisfactory you must perform a **Factory Settings Reset**. To do this enter the **System** menu and then **Factory Reset**. Select Reset and then wait for the telephone to initialize and verify that the PHONE menu appears in the MFD+.

**Bluetooth Gateway** 

### **1.8 Vehicle Specific ECU Mounting Locations**



**1A Golf VI** Location: Mounted on dash support cross brace, behind driver side pocket.



1C EOS, Scirocco, Golf V, Jetta Location: Mounted on dash support cross brace, behind driver side pocket.



**1B** Passat 3C, Passat CC Location: Attached to ECU behind A/C control panel.



**1D Tiguan** Location: Attached to top of pocket, behind A/C control panel.



**1G Skoda Octavia II** Location: mounted on top of pocket behind A/C controls.



**1H Skoda Superb** Location: Mounted on dash support cross brace, behind driver side pocket.



1 Skoda Yeti Location: Mounted on LHS internal wall of centre console using adhesive tape.



1E TouaregGP (Facelift) Location: Attached to panel as pictured with double-sided tape and cable ties.



1F Polo GR Location: Attached to LHS kick panel metal surface with double-sided tape as pictured.

Installation Instructions

**Bluetooth Gateway** 

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### **1.9 Vehicle Specific Microphone Mounting Locations**



2A Golf VI Location: Attached to trim panel with wire routed behind trim panel.



**2C EOS, Scirocco, Golf V, Jetta** Location: Attached to trim panel with wire routed behind trim panel.



2B Passat 3C, Passat CC Location: Attached to rear view mirror support cover.



**2D Tiguan** Location: Attached to trim panel with wire routed behind trim panel.



2E TouaregGP (Facelift) Location: Attached to trim panel with wire routed behind trim panel.



2F Polo 6R Location: Attached to steering wheel shroud with wire routed behind vinyl cover.



26 Skoda Octavia II Location: Attached to trim panel with wire routed behind trim panel.



2H Skoda Superb Location: Attached to steering wheel shroud with wire routed behind vinyl cover.



21 Skoda Yeti Location: Attached to trim panel with wire routed behind trim panel.

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## **Trouble Shooting Guide**

The purpose of this guide is to help the end user or the installer of the Bluetooth Gateway with pairing and non-connecting phones after the kit has been installed.

### To the installer:

Once the BT Gateway has been installed in the vehicle and it has been coded to the CAN Gateway in the vehicle (Address 19, option 77 Telephone) the unit must be tested using a Bluetooth enabled mobile phone. Once the kit has been tested and verified as working OK you must perform a 'Factory Reset" to clear the test phone and any other previously paired phones from the BT Gateways memory before the vehicle is delivered to the end user.

### To the installer and end user:

The Bluetooth Gateway can store up to 5 different phone pairings in its internal memory. If the BT Gateways memory has 5 phone pairings in it, you can't pair any more phones without deleting some of the unused phone pairings. There are two ways to do this.

### To Delete one Paired Device at a time:

Using the In-Dash Multi Function Display (MFD) and the Multi-Function Steering Wheel (MFSW):

- 01 Turn IGN on and go to the PHONE page within the MFD
- 02 On the PHONE page select BLUETOOTH
- 03 Now select PAIRED DEVICES
- **04** You will see a list of paired devices (the Bluetooth ID of the phones that are connected i.e. "Johns iPhone").
- **05** Select the device that you want to delete and the select DELETE or BACK if you have made a mistake with your selection
- **06** You will then see a message saying DELETING DEVICE
- **07** You can now select BACK until you return to the main menu.
- ${\bf 08}\,$  Turn the vehicles IGN OFF and remove the key for 30 seconds
- **09** Please make sure that any previous pairings to the BT Gateway system are deleted from your phones memory.
- **10** Switch the IGN back ON and try pairing the BT Gateway using the phones Bluetooth menu.

The BT Gateways Bluetooth ID is "CAR BT"

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**Bluetooth Gateway** 

## To Delete ALL Paired devices and restore all Factory settings:

Using the In-Dash Multi Function Display (MFD) and the Multi-Function Steering Wheel (MFSW):

- 01 Turn IGN on and go to the PHONE page within the MFD
- **02** On the PHONE page select SYSTEM
- 03 Now select FACTORY RESET
- **04** You will now see the following message RESTORE FACTORY SETTINGS CONTINUE?
- 05 Select RESET
- 06 You will see a message saying TELEPHONE INITIALIZING
- 07 After this the PHONE menu should be available again in the MFD
- **08** Please make sure that any previous pairings to the BT Gateway system are deleted from your phones memory.
- **09** You can now try pairing the BT Gateway using the phones Bluetooth menu.
- The BT Gateways Bluetooth ID is "CAR BT"

## **Trouble Shooting**

## **01** My phone was paired and functioning correctly but will now not pair correctly

If the above issue arises the best thing to do is reset the phone. Make sure the vehicles IGN is switched OFF and the key is removed from the IGN. Turn off the phone and remove the battery for 30 seconds. Reinsert the Battery and switch the phone back on. Make sure the phone has turned on correctly and that the Bluetooth function is active. Turn the IGN ON in your vehicle and wait 1 minute for your phone to pair. If it does not pair, please perform a FACTORY RESET as described above.

## **02** My phone paired the first time but will now not pair automatically

In some phones you may have to set the BT Gateway as an "authorised" device within the phones menu. Sometimes you may be prompted to do this when you first pair the phone to the BT Gateway, otherwise you will have to do this in the phones Bluetooth menu. Usually you highlight the device called CAR BT and then go to the OPTIONS and then SET DEVICE AS AUTHORISED or something similar. All phones are different.

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**Bluetooth Gateway**