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Version 1.04

(03.01.2017)

Installation instruction  
FISCON Bluetooth  
Hands-free speaking system  
Volkswagen

Article no.: 38103

VW Crafter – 2E

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## General advice

While developing this product, your personal safety combined with the best operating service, modern design and an up-to-date production technique was especially taken into account.

Unfortunately, despite the utmost care injuries and/or damages might occur due to improper installation and/or use.

Please read the attached instruction manual completely with great care and keep it!

All articles of our production line pass through a 100 % check - for your safety and security.

We reserve the right to carry out technical changes which serve the improvement at any time.

According to each article and purpose, it is sometimes necessary to check each country's legal regulations before installing and starting the unit.

In case of guarantee claims, the device has to be sent back to the seller in the original packaging with the attached bill of purchase and detailed defect's description. Please pay attention to the manufacturer's return

requirements (RMA). The legal warranty directions are valid.

The guarantee claim as well as the operating permission becomes invalid due to:

- a) unauthorized changes to the device or accessories which have not been approved or carried out by the manufacturer or its partners*
- b) opening the device's frame*
- c) device's repairs carried out by one's own*
- d) improper use / operation*
- e) brute force to the device (drop, wilful damage, accident etc.)*

During installation, please pay attention to all safety relevant and legal directions. The device has only to be installed by trained personnel or similarly qualified people.

**Please limit on installation or function problems the troubleshooting to 0.5 hours for mechanical and 1.0 hours for electronic works.**

To avoid unnecessary work and to save costs, please send us immediately via the contact form Kufatec (<http://www.kufatec.de/shop/de/infocenter/>) a request to our technical support.

Please quote the following necessarily:

- Vehicle Identification Number
- Part number of the retrofit kit
- Detailed description of problems
- Already conducted operations

## Safety Instructions

Installation requires special knowledge.

Do not install the unit yourself. For safe and reliable installation, consult a dealer having special knowledge.

- *Never use bolts or nuts from the car's safety devices for installation. If bolts or nuts from the steering wheel, brakes or other safety devices are used for installation of the unit, it may cause an accident.*
- *Use the unit with a DC 12V negative ground car. This unit cannot be used in large trucks which use a DC 24V battery. If it is used with a DC 24V battery, it may cause a fire or accident.*
- *Avoid installing the unit in following places: - Where it would hinder your safe driving. - Where it could damage the car's fittings.*
- *This unit is only for use in the following vehicles. Only connections described within this instruction guide are allowed or required to use for installation.*
- *For damage impact caused by faulty installation, unsuitable connections in appropriate vehicles Kufatec GmbH assumes no liability.*
- *We advise you that these units process data out of the MOST - protocol from the vehicle. As the supplier of this device we don't know the overall system you are working with. If our device causes damage due to other changes made by to the vehicle Kufatec GmbH assumes no liability.*
- *Kufatec GmbH supplier do not guaranty the use of the product for changing's within a new vehicle series.*
- *If the car manufacturer's don't agree with the installation of our device by reason of warranty the Kufatec GmbH assumes no liability. Please check conditions and warranty before you begin the installation.*
- *Kufatec GmbH supplier reserves the right to change the device specifications without notice.*

**NOTE:** The road traffic has to have your full attention.

Telephone operations should only be done by suitable traffic and weather situations. The volume need to be set that you are still able to realise acoustic warn signals (Police, fire brigade).

- *Errors and changes excepted.*

## References of legal regulations for operation

Only use this unit in the intended domain.

If you use it in a foreign domain, if the unit is not installed properly, or if the unit will be reconstructed, the guarantee will expire.

## FISCON Functions

- Operation by means of the radio RNS 5001, RNS 4001, RCD 4001
- **Direct entry** of phone numbers
- **A2DP audio streaming** for the playback of music files through the vehicle speakers.
- **Unlimited possibility** of Software Updates
- Using of the following **telephone functions**:
  - Request for **telephone book entries** (depending on the phone)
  - Establishing of calls, answering and ending
  - Sound volume regulation

## Scope of delivery

Bluetooth Interface  
Cable harness  
Microphone

**NOTE:** Before the installation check whether the vehicle is equipped with adapters of different brands. If there is assembled another interface than developed by Kufatec GmbH & Co. KG, so the trouble-free function of the FISCON System cannot be guaranteed. Respectively the interface of different brand has to be removed of the vehicle.

**NOTE: The light conductor must NOT BE BENT! The recommended laying radius amounts to 40mm.**

Faulty installation can result in higher cushioning and run-time differences. In such case the trouble-free functioning of the FISCON System cannot be guarantee.

Hereby, Kufatec GmbH & Co. KG declares that the Device KUFATEC FISCON are in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EG

The declaration of conformity can be found at the following address: [www.kufatec.de/ce](http://www.kufatec.de/ce)

## Installation instructions

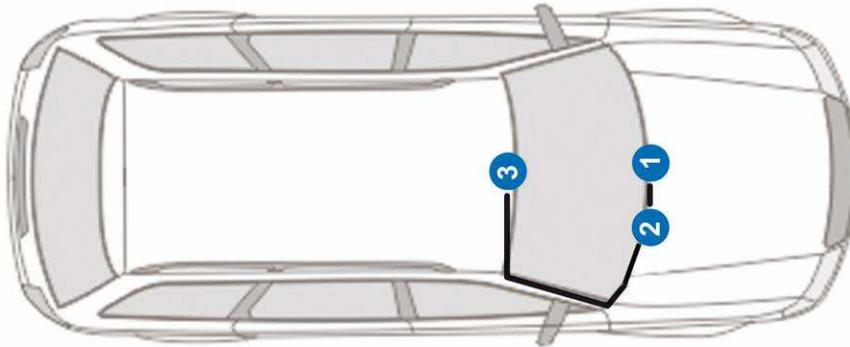


Fig.1

1 – Radio- Navigation

2 – Telephone interface (position can vary)

3 – Microphone

Dismantle carefully the radio- navigation unit by means of a plastic wedge (fig. 2). Loosen 4 Torx screws (fig. 3) and take out the radio-navigation unit.



Fig.2



Fig.3

## Microphone

**NOTE:** If the vehicle is equipped with airbags, then for safety make sure that the microphone wire is laid **BEHIND** the airbag and not on the voltage. Fasten the wire so that the airbag function will not be affected.

Lever the airbag shield out of the frame and unscrew the bolt situated behind (fig. 4). Lay the microphone wire toward the interior light (fig. 5). Adjust the microphone to the driver's position (fig. 6).



Fig.4



Fig.5



Fig.6

# Coding

In order to carry out the coding of the vehicle please contact your VW dealer. For the execution of the vehicle coding please choose the **vehicle self-diagnosis**.

## Execution

<b>Fahrzeug-Eigendiagnose</b>	
<b>Systemauswahl</b>	
Wählen Sie ein System aus:	
<b>Eigendiagnose</b>	
<b>Eigendiagnose – Verbundsysteme</b>	
LT2 Eigendiagnose	
<b>Crafter Eigendiagnose</b>	

Self-diagnosis



<b>Fahrzeug-Eigendiagnose</b>	
Fahrzeugsystem auswählen	
<b>9D – Zuheizler (Kraftstoff)</b>	
<b>9E – Zuheizler (elektrisch)</b>	
<b>9F – Standheizung Wasser</b>	
<b>A0 – Radio</b>	
<b>A1 – Navigation</b>	
<b>A2 – CD-Wechsler</b>	
<b>A3 – Telefon</b>	
<b>B0 – Anzeige-/Bedieneinheit Dach</b>	
<b>B1 – Oberes Bedienfeld</b>	

Address A0 – Radio



<b>Fahrzeug-Eigendiagnose</b>	A0 – Radio
<b>Unterstützte Funktionen</b>	AGW_NTG2
Diagnosefunktion auswählen	HW - Teilenummer: SW – Teilenummer: SW – Teilenummer2:
<b>003 – Identifikation</b>	
<b>004 – Fehlerspeicherinhalt</b>	
<b>005 – Stellglieddiagnose</b>	
<b>009 – Codierung</b>	
<b>011 – Messwerte</b>	
<b>012 – Anpassung</b>	
<b>024 – Steuergeräte Reset</b>	

009 – Coding



<b>Fahrzeug-Eigendiagnose</b>	A0 – Radio
<b>009 - Codierung</b>	AGW_NTG2
Codierstring auswählen	HW - Teilenummer: SW – Teilenummer: SW – Teilenummer2:
<b>AGW_Parameter</b>	
<b>Ringreihenfolge</b>	
<b>Rated_Main_FBlock_Device</b>	
Codierung aus Datei einlesen und in das Fahrzeugsystem schreiben Codierung vom Fahrzeugsystem einlesen und in Datei speichern	

Ring sequence



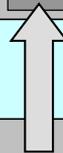
<b>Fahrzeug-Eigendiagnose</b>	A0 – Radio												
<b>009 – Codierung (Ringreihenfolge)</b>	AGW_NTG2												
Prüfziffer eingeben	HW - Teilenummer: SW – Teilenummer: SW – Teilenummer2:												
Max. Eingabewert = FFFF													
<table border="1"> <tr><td>1</td><td>2</td><td>3</td></tr> <tr><td>4</td><td>5</td><td>6</td></tr> <tr><td>7</td><td>8</td><td>9</td></tr> <tr><td>C</td><td>0</td><td><b>Q</b></td></tr> </table> HEX <input type="checkbox"/>		1	2	3	4	5	6	7	8	9	C	0	<b>Q</b>
1	2	3											
4	5	6											
7	8	9											
C	0	<b>Q</b>											

Confirm with „Q“



<b>Fahrzeug-Eigendiagnose</b>	A0 – Radio
<b>009 – Codierung (Ringreihenfolge)</b>	AGW_NTG2
Prüfziffer eingeben	HW - Teilenummer: SW – Teilenummer: SW – Teilenummer2:
Max. Eingabewert = FFFF	
Sie haben keine Prüfziffer eingegeben. Ein Fehler bei der Eingabe des Codierstrings kann nicht festgestellt werden.	
<input type="button" value="OK"/>	

Confirm the note with „OK“



Bit pattern appears

Fahrzeug-Eigendiagnose		
009 – Codierung (Ringreihenfolge)		
Codierwert auswählen		
Byte-Index	Hex	Bit-Muster
0	\$40	01000000
1	\$31	xxxxxxx
2	\$xx	xxxxxxx

1	2	3
4	5	6
7	8	9
C	0	Q

HEX
BIN

◀
▶
▶▶

1. Move the existing Hex value of Byte 1 (e.g. 31) by one position downward.

Byte-Index	Hex	Bit-Muster
0	\$40	01000000
1	\$31	xxxxxxx
2	\$ xx	xxxxxxx
3		

2. Enter the Hex value **50** for Byte 1.

Byte-Index	Hex	Bit-Muster
0	\$40	01000000
1	\$50	xxxxxxx
2	\$31	xxxxxxx
3		

Save the coding

Fahrzeug-Eigendiagnose		
009 – Codierung (Ringreihenfolge)		
Codierwert auswählen		
Byte-Index	Hex	Bit-Muster
0	\$40	01000000
1	\$50	xxxxxxx
2	\$31	xxxxxxx

Soll die Codierung wirklich erfolgen?

◀
▶
▶▶

Confirm with „OK“

## Control unit Reset

<b>Fahrzeug-Eigendiagnose</b>	
<b>Systemauswahl</b>	
Wählen Sie ein System aus:	
<b>Eigendiagnose</b>	
<b>Eigendiagnose – Verbundsysteme</b>	
LT2 Eigendiagnose	
<b>Crafter Eigendiagnose</b> ←	
	

Self-diagnosis



<b>Fahrzeug-Eigendiagnose</b>	
Fahrzeugsystem auswählen	
<b>9D – Zuheizer (Kraftstoff)</b>	
<b>9E – Zuheizer (elektrisch)</b>	
<b>9F – Standheizung Wasser</b>	
<b>A0 – Radio</b> ←	
<b>A1 – Navigation</b>	
<b>A2 – CD-Wechsler</b>	
<b>A3 – Telefon</b>	
<b>B0 – Anzeige-/Bedieneinheit Dach</b>	
<b>B1 – Oberes Bedienfeld</b>	
	

Address A0 - Radio



<b>Fahrzeug-Eigendiagnose</b>	A0 – Radio
<b>Unterstützte Funktionen</b>	AGW_NTG2
Diagnosefunktion auswählen	HW - Teilenummer:
	SW – Teilenummer:
	SW – Teilenummer2:
<b>003 – Identifikation</b>	
<b>004 – Fehlerspeicherinhalt</b>	
<b>005 – Stellglieddiagnose</b>	
<b>009 – Codierung</b>	
<b>011 – Messwerte</b>	
<b>012 – Anoaassung</b>	
<b>024 – Steuergeräte Reset</b> ←	
	

024 – Control units Reset



<b>Fahrzeug-Eigendiagnose</b>	A0 – Radio
<b>Unterstützte Funktionen</b>	AGW_NTG2
Diagnosefunktion auswählen	HW - Teilenummer:
	SW – Teilenummer:
	SW – Teilenummer2:
<div style="border: 1px solid black; padding: 10px; margin: 10px auto; width: 80%;"> <p><b>Steuergeräte-Reset wirklich durchführen?</b></p> <p style="text-align: right;"><input type="button" value="OK"/></p> </div>	
	

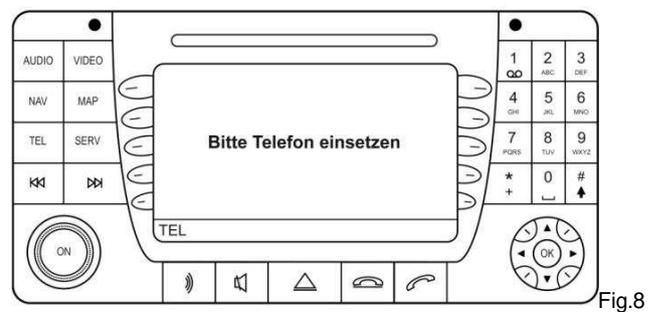
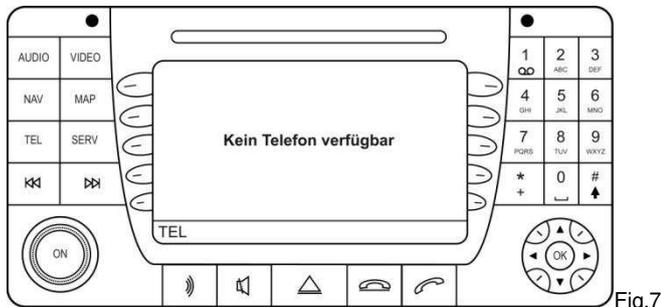
Confirm the reset with OK



## Operation instructions

The operations instructions described below apply to the navigation unit RNS 5001 (deviations in case of another radios are the consequence of the original key occupation).

If the vehicle is ex-factory not equipped with an HSS, then with the actuation of the **TEL** key there appears the fig. 7. As soon as both the installation and the coding will be carried out and the HSS Interface is connected the depiction of the fig. 8 appears on the display.

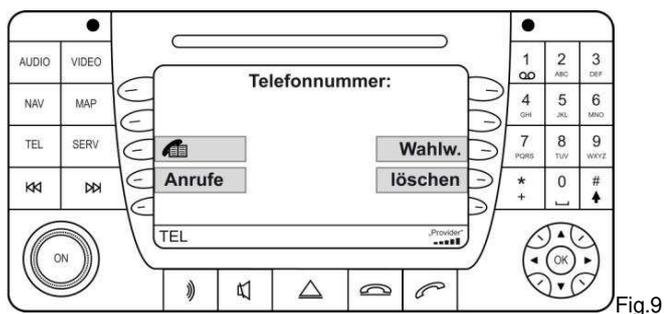


## Teaching-in

1. Press the **TEL** key on the radio – navigation unit
2. Activate the Bluetooth Function on the mobile phone
3. Search for new Bluetooth devices by means of the mobile phone
4. As soon as the HSS has been found select this one and start the pairing process
5. Password entry on the mobile phone – **1234** – conformation

After the completion of the teaching-in process the figure 9 appears on the phone surface. Also, if supported by the phone, the name of the phone provider and the field intensity will be presented.

Up to **5 mobile phones** can be stored.



### NOTE:

The Bluetooth connection remains intact so long until it will be disconnected manually on the mobile phone or the vehicle will be closed in case of leaving.

## Bluetooth device list

If there are **5 phones** stored in the system and further one should be connected, then a stored phone has to be deleted from the Bluetooth device list.

Actuate the key combination **SERV > BLUETOOTH** (fig. 10-11).

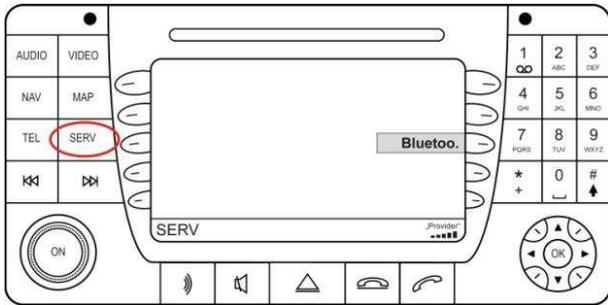


Fig.10

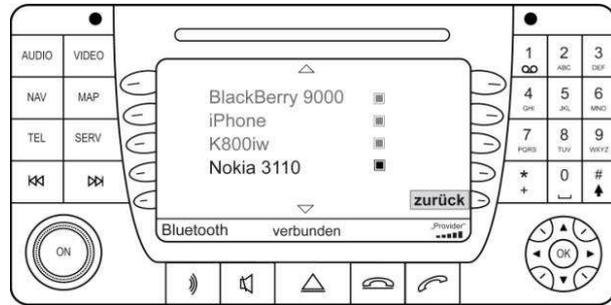


Fig.11

Select the phone to be removed and press **OK**. Confirm with **YES** (fig. 12).



Fig.12

## Factory settings

Press the **TEL** key over a time of **8 seconds** (fig. 13).

**NOTE:** In case of the radio system first establish a Bluetooth connection with the last coupled phone before you press the **TEL** key.

**NOTE:** Afterwards wait **2 minutes** before you e.g. connect a new phone.

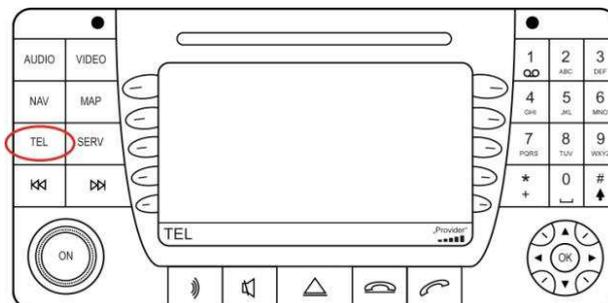


Fig.13

## Selection repeat

Actuate the **SELREP** key (fig. 14). Afterwards you have an access to the last selected, missed, answered calls. Select an entry and confirm it (fig. 15).

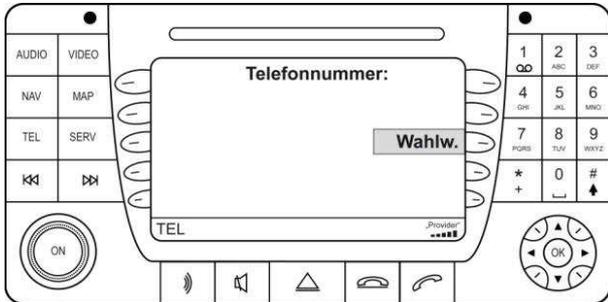


Fig.14

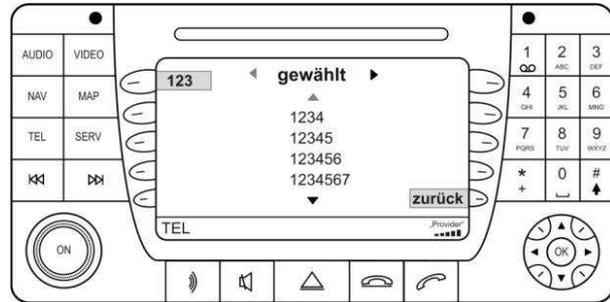


Fig.15

## Telephone book

**NOTE:** The mobile phone has to support the synchronization of the telephone book function per Bluetooth. The telephone book function of the hands-free speaking system is limited to 1000 entries (sub-entries included). In case of a large number of call numbers the synchronization can take some time. Avoid breaks during the synchronization).

Press the **TELEPHONE BOOK** key  (fig. 16)

Select a phone number and press the **SELECT** key in order to establish a call with the required number (fig. 17).

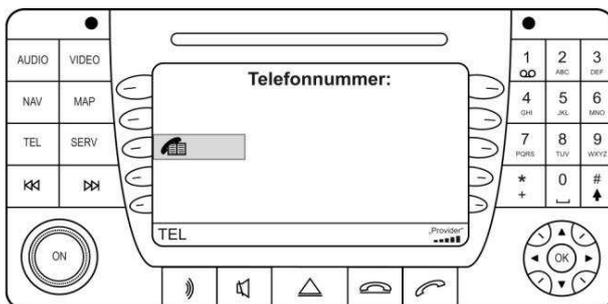


Fig.16



Fig.17

## Name sequence of the telephone book entries

### First name, name OR name, first name

**NOTE:** This function uses the profile of the mobile phone. When a new telephone is connected then the following steps have to be executed. This function is not supported by all mobile phones!

This function is accessible from the FISCON Mainboard Software version 1.94.

### First name, name sequence

For the activation of this sequence carry out the following steps:

1. Establish a Bluetooth connection between the phone and the FISCON system.
2. The telephone book has to be fully loaded.
3. Enter the following code in the mobile phone: **258225000**
4. After the entry of the code confirm by the **SELECT** key on the phone  (fig. 8)
5. The connection can be finished again after 2-3 seconds. It follows the announcement that the number does not exist. The activation is completed



Fig.18

**NOTE:** After the entry of the code the connection between the phone and the FISCON system has to last min. 10 minutes (depending on the number of telephone book entries).

Depending on the radio the selected setting will be loaded automatically or visible after a repeated teaching-in with this mobile phone.

### Name, first name sequence

For the activation of this sequence carry out the following steps:

1. Establish a Bluetooth connection between the phone and the FISCON system.
2. The telephone book has to be fully loaded.
3. Enter the following code in the mobile phone: **258225000**
4. After the entry of the code confirm by the **SELECT** key on the phone  (fig.19)
5. The connection can be finished again after 2-3 seconds. It follows the announcement that the number does not exist. The activation is completed.



Fig.19

**NOTE:** After the entry of the code the connection between the phone and the FISCON system has to last min. 10 minutes (depending on the number of phone book entries).

Depending on the radio the selected setting will be loaded automatically or visible after a repeated teaching-in with this mobile phone.

## Call establishing from the call lists

Press the **CALLS > SELECTED/ ANSWERED / MISSED** key

Select the phone number and press the **SELECT** key in order to establish a call with the required number (fig. 20-21).

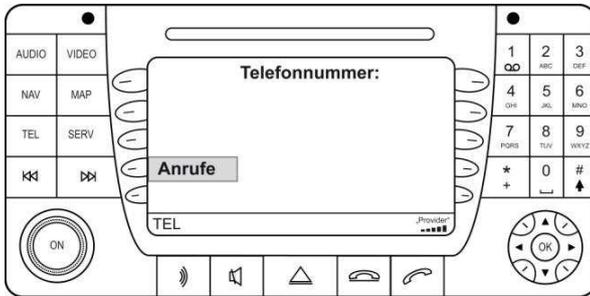


Fig.20



Fig.21

**NOTE:** The mobile phone has to support the call lists.

## Establishing a call through the numerical pad

By means of the numerical pad the required phone number can be entered directly. Press the **SELECT** key.



Fig.22



Fig.23

## Incoming calls

The name of the caller (when supported by the phone) will be displayed. In case of not stored names a call number display takes place.

Actuate the **ANSWER** or **REJECT** key.



Fig.24

## A2DP Audio streaming

**NOTE:** The A2DP function has to be activated before the first use. The mobile phone has to support the synchronization for A2DP function per Bluetooth. There cannot be a CD-changer installed in the vehicle.

### A2DP Activation

For the activation of the A2DP function carry out the following steps:

1. Establish as usual a Bluetooth connection between telephone and FISCON system.
2. Actuate the **TEL** key on the radio
3. Enter the following code: **258224001 (deactivation 258224000)**
4. After entering of the code press the **SELECT** key  (fig. 26)



Fig.25



Fig.26

**NOTE:** The announcement, that the number does not exist, takes place. The activation was carried out. After the activation (call connection)  let the vehicle switch to the idle state.

**NOTE:** The vehicle is in idle state as soon as the instrument cluster switches off.

 **Start the radio anew.**

In case of a successful activation after the actuation of the **AUDIO** key the CD-changer will be displayed – **CDC** (fig. 80). The A2DP operation takes place through the control system of the CD changer. Press the **AUDIO > CDC** keys.

Through the menu items **START – STOP – FORWARD – BACK** the music files, that are stored in the phone, can be selected and played (fig. 28).

**NOTE:** The phone has to support the A2DP control per Bluetooth. The orders are partially not supported by the phone.

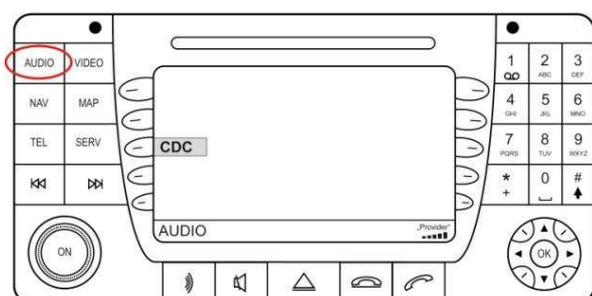


Fig.27

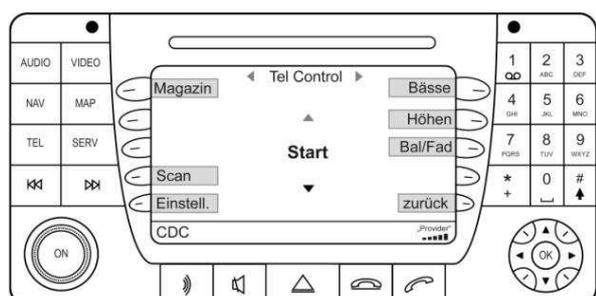


Fig.28

## SMS Short Messages

**NOTE:** The mobile phone has to support the synchronization for the SMS function per Bluetooth. The number of the SMS is limited to 90.

The particular functions (write, send, receive) are partially not supported by the phone.

Actuate the **SERV > POST** keys in order to call the SMS function. You have the accesses to the SMS-**ENTRY, EXIT, PROJECT** (fig. 29-30).

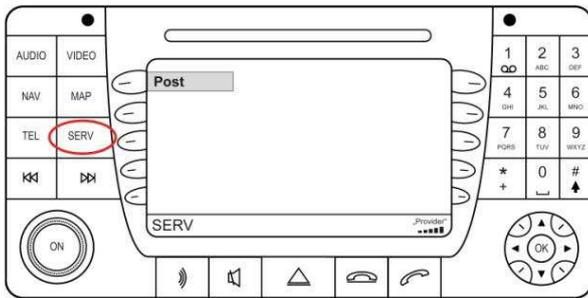


Fig.29

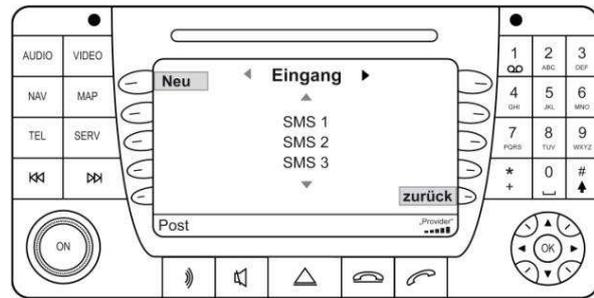


Fig.30

## Write SMS

Through the numerical pad the SMS can be written and sent. Press the **SERV > POST > NEU** key (fig. 31).

Give the required number of the receiver or select the receiver through the **ADDRESS BOOK** (fig. 32).



Fig.31

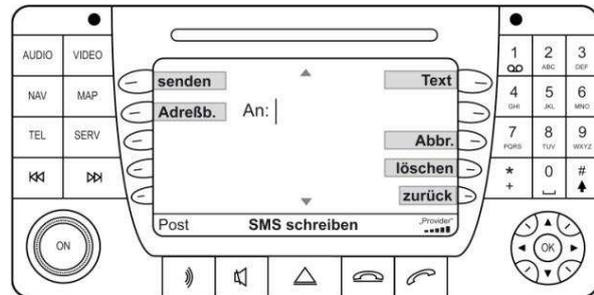


Fig.32

Enter the message through the numerical pad and send through the **SEND** key (fig. 33).



Fig.33

The deleting of short messages in telephone is not possible over the radio.

## Setup per radio

Interface – settings can be executed by means of the radio as follows.

### Setup execution

1. Establish a Bluetooth connection between the phone and FISCION system as usual.
2. Apply the following Setup – Code: **25822XXYY**
3. Take the values for **XX** and **YY** from the following table.
4. After the entry of the code confirm with the **SELECT** key  (fig. 35).

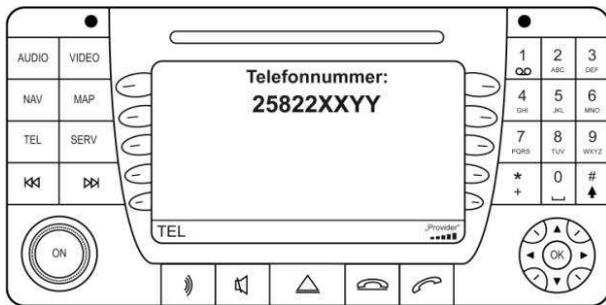


Fig.34

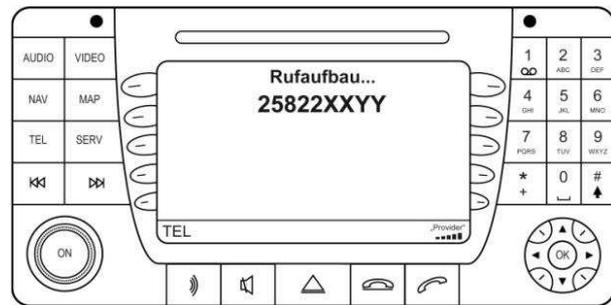


Fig.35

Function	XX	YY	Example
Volume Phone	10	(0-15)	258221009
Volume Ring tone	11	(0-15)	258221112
A2DP activation	40	01	258224001
A2DP deactivation	40	00	258224000
Microphone enhancement	14	(0-15)	258221409
Hardware Reset	21	77	258222177
Software Update	20	25	258222025

**NOTE:** The announcement, that the number does not exist, takes place. The Setup was carried out.

After the call connection was executed  **let the vehicle switch to the idle state.**

**NOTE:** The vehicle is in the idle state as soon as the instrument cluster switches off.

 **Start the radio anew.**

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## FAQ

Why can't I make connection with the FISCON system anymore?

- *There are already 5 different mobile phones connected to the hands-free speaking system. In order to be able to connect a further phone you have to reset the system to the factory settings.*

Why my telephone book does not appear in the display of the radio?

- *Not each mobile phone supports the telephone book function – consider the compatibility list!*
- *At the first call establishing and in case of large amount of call numbers the synchronization can take some time.*

Why don't I have an access to the menu items of the phone as „Selected numbers“, „Answered calls“, „Calls in absence“?

- *Not each mobile phone supports this function – consider compatibility list!*

The FISCON System is not recognized by my vehicle.

- *If there is a Video Interface of a different brand installed in the vehicle, a trouble-free function cannot not be guaranteed.*
- *Any kind of mobile phone preparations have to be removed from the vehicle.*
- *Encode the system.*

## FAQ – Online

<http://www.kufatec.de/shop/infocenter.php/faq>