
Version 1.02

(29.05.2013)

Installation instruction
FISCON Bluetooth
Hands-free speaking system
Volkswagen

Article no.: 38389

A large, light gray watermark of the KUFATEC logo is centered on the page. It consists of the word 'KUFATEC' in a bold, sans-serif font, with three curved lines above and below it, mirroring the design of the logo in the top right corner.

VW Touareg 7P with RCD 550

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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 RCD 550
 - Multi-function steering wheel (if any)
- **Direct entry** of phone numbers
- **DTMF Ton selection procedure**
- **A2DP Audio streaming** to playback of music files through the vehicle speakers.
- **SMS function** (if supported by the phone):
 - read SMS and send pre-prepared short messages
- Regulation of the **Microphone enhancement** to optimize the speaking quality
- **Sound volume regulation** concerning the A2DP, phone conversations, ring ton ...
- **Unlimited possibilities of Software Updates**
- Use the following **phone functions**:
 - Recalling of the **telephone book entries** (depending on the phone, presentation in the MFA+)
 - Establishing, answering and finishing of calls
 - Volume regulation
- **ICON** presentation (if supported by phone) – Mobil, Work, Home
- **Diagnosis function** – recall of the interface Information and execution of an Interface – Reset by means of VW VAS Tester

Scope of delivery

Bluetooth Interface
Cable harness
Microphone

NOTE: It is necessary to check before the installation, whether the vehicle is factory-side equipped with the original **MDI MEDIA IN** interface.

If the vehicle is not equipped with the **MDI**, check with your VW dealer whether the vehicle possess ex-factory an **Infotainment Gateway**. The dealer can readout it by means of a VAS diagnosis tester (**Address A7**). If the vehicle does not have the **Address A7**, so additionally is the Kufatec article no.: **38374** necessary.

If there is assembled another interface than developed by Kufatec GmbH & Co. KG, so the trouble-free function of the hands-free speaking system cannot be guaranteed. Respectively the interface of a different brand has to be removed from the vehicle.

Installation instructions

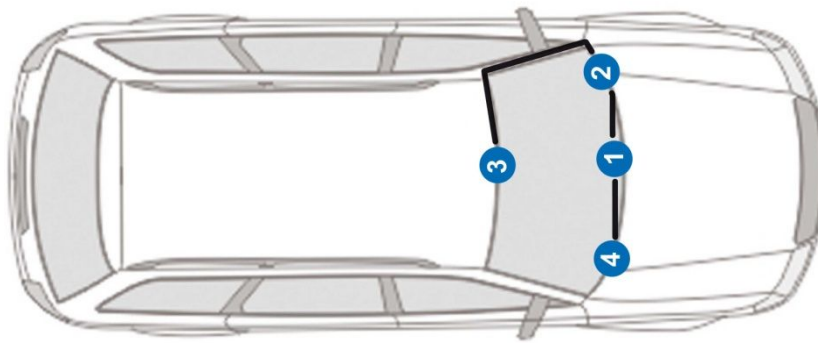


Abb. 1

1 – Radio RCD 550

2 – Telephone Interface (underneath the steering wheel cover)

3 – Microphone

4 – MDI (if factory-installed)

NOTE: If there is no MDI assembled see the notes from page 3.

Remove the locking pins of the oddments tray. Pull out the oddments tray. Loosen the screws of the radio situated underneath (fig. 3).



Fig.2



Fig.3

By means of a suitable tool remove the snap-in noses of the radio.



Fig.4



Fig.5

NOTE: For better dismantling you can place a lever behind the radio. Push it under the steering wheel toward the radio (fig. 6).



Fig.6



Fig.7

The connection of the cable harness takes place on the backside of the Head Unit (fig. 8).

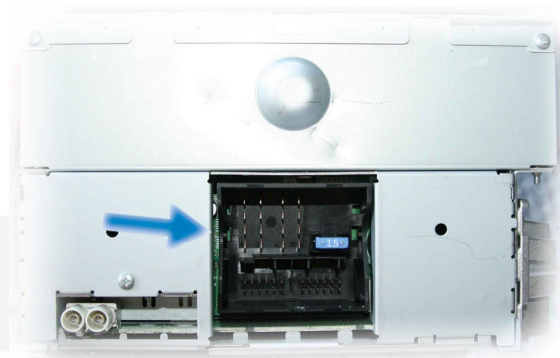


Fig. 8

Connection of the CAN wires in vehicles **WITH** MDI

Loosen the necessary screws of the glove compartment (fig. 9).

NOTE: Remove the lighting of the glove compartment in the first place, because it could be destroyed due to the short wire length.



Fig.11



Fig.9



Fig.10

The connection of the CAN-wires takes place at the 12-pin plug connector of the MDI unit.

12-pin MDI plug (fig. 12, 13)

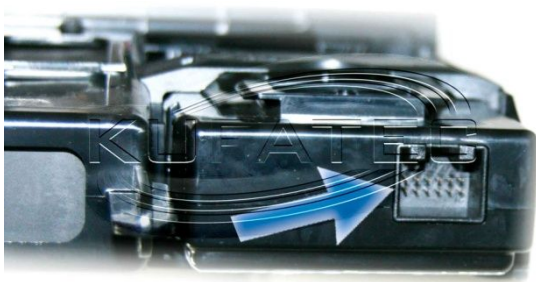


Fig.12



Fig.13

FISCON wires	12-pin MDI
Blue (CAN-High)	PIN 8 (Orange/Violet)
Brown (CAN-Low)	PIN 2 (Orange/Brown)

Connect the CAN-wires parallel (**new crimp or braze joint**). Braze joint: Remove the coating of the appropriate vehicle wire – properly insulate the **braze spot** using a suitable adhesive tape!

Do not remove any existing **vehicle wiring!** Do not use **any press-on connectors!**

Connection of the CAN wires in vehicles **WITHOUT** MDI

NOTE: If there is no MDI assembled see the notes on page 3.

NOTE: The infotainment Gateway will be placed under the radio. About the installation of the Infotainment Gateway see the installation instruction article no.: **38374**.

The connection of the CAN-wires takes place at the 20-pin plug of the Infotainment Gateway.

20-pin plug Infotainment Gateway

FISCON wires	20-pin Infotainment Gateway
Blue (CAN-High)	PIN 20
Brown (CAN-Low)	PIN 10



Do not remove any existing **vehicle wires!**

Microphone

Lever the airbag shield (by means of a suitable dismantling wedge) out of the frame and loosen the lining of the A-column (fig.15). Lay the microphone wiring toward the interior light (fig. 16).

NOTE: In case of some vehicles it is not necessary to remove the airbag shield.



Fig.15



Fig.16

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

Remove the blind of the interior light and loosen the screws situated behind (fig.17). Place the microphone on the original position (driver's side) of the interior light (fig. 19).



Fig.17



Fig.18

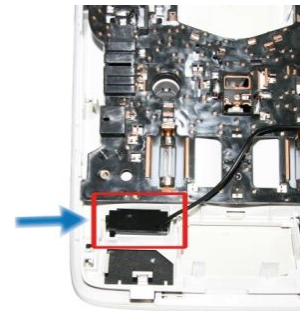


Fig.19

Coding VAS

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

Address 19 – Set the phone on „coded“

Fahrzeug-Eigendiagnose	
Systemauswahl	
Wählen Sie ein System:	
Eigendiagnose ← Eigendiagnose - Verbundsysteme LT2 Eigendiagnose Crafter Eigendiagnose	

Self-diagnosis



Fahrzeug-Eigendiagnose	
Fahrzeugsystem auswählen	
55 - Leuchtweitenregulierung 5C - Spurrassistent 16 - Lenkradelektronik 46 - Zentralmodul Komfortsystem 56 - Radio 10 - Einparkhilfe II 07 - Anzeige-/ Bedieneinheit 17 - Schalttafeleinsatz 37 - Navigation 47 - Soundsystem 77 - Telefon 0E - Mediaplayer Position 1 08 - Klima-/Heizungselektronik 19 - Diagnoseinterface für Datenbus ←	

Address 19 Diagnosis interface for the data bus



Fahrzeug-Eigendiagnose	19 - Diagnoseinterface für Datenbus
Unterstützte Funktionen	Interfacebox
Diagnosefunktion auswählen	Codierung 1
	Betriebsnummer
001 - Identifikation (Dienst \$1A) 004 - Fehlerspeicherinhalt 008 - Codierung (Dienst \$) ← 011 - Messwerte 014 - Lange Anpassung 015 - Zugriffsberechtigung 017 - Sicherheit 022 - Ausgabe beenden Alle Diagnosefunktionen anzeigen	

Coding



Fahrzeug-Eigendiagnose	19 - Diagnoseinterface für Datenbus
Unterstützte Funktionen	Interfacebox
Diagnosefunktion auswählen	Codierung 1
	Betriebsnummer
008.01 - Codierung 008.02 - Codierung Verbauliste ←	

Installation list



Fahrzeug-Eigendiagnose	19 - Diagnoseinterface für Datenbus																						
Unterstützte Funktionen	Interfacebox																						
Diagnosefunktion auswählen	Codierung 1																						
	Betriebsnummer																						
<table border="0"> <tr> <td>10 - Einparkhilfe II</td> <td>codiert</td> </tr> <tr> <td>20 - Fernlichtassistent</td> <td>nicht codiert</td> </tr> <tr> <td>30 - Sonderfunktion</td> <td>nicht codiert</td> </tr> <tr> <td>07 - Anzeige-/Bedieneinheit</td> <td>codiert</td> </tr> <tr> <td>17 - Schalttafeleinsatz</td> <td>codiert</td> </tr> <tr> <td>37 - Navigation</td> <td>codiert</td> </tr> <tr> <td>47 - Soundsystem</td> <td>codiert</td> </tr> <tr> <td>57 - TV-Tuner</td> <td>nicht codiert</td> </tr> <tr> <td>67 - Sprachsteuerung</td> <td>nicht codiert</td> </tr> <tr> <td>77 - Telefon</td> <td>codiert ←</td> </tr> <tr> <td>6C - Rückfahrkamera</td> <td>codiert</td> </tr> </table>		10 - Einparkhilfe II	codiert	20 - Fernlichtassistent	nicht codiert	30 - Sonderfunktion	nicht codiert	07 - Anzeige-/Bedieneinheit	codiert	17 - Schalttafeleinsatz	codiert	37 - Navigation	codiert	47 - Soundsystem	codiert	57 - TV-Tuner	nicht codiert	67 - Sprachsteuerung	nicht codiert	77 - Telefon	codiert ←	6C - Rückfahrkamera	codiert
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67 - Sprachsteuerung	nicht codiert																						
77 - Telefon	codiert ←																						
6C - Rückfahrkamera	codiert																						

Set the phone on coded – confirm the coding

Operation elements

Multi-function steering wheel

By means of the menu key you can enter the phone menu. Using the arrow-keys you can jump between the particular selection possibilities. With the **OK**-key the selection of the particular menu item takes place. In order to exit the menu select the menu item **RETURN** or press the return key.



Fig.20

Multi-function display

The menu items of the telephone system will be displayed simultaneously in the MFA.

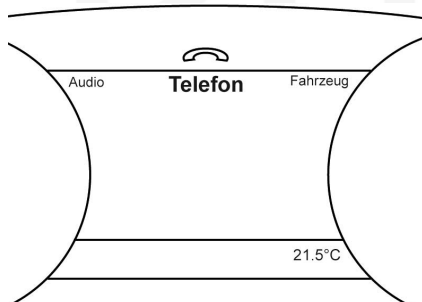


Fig.21

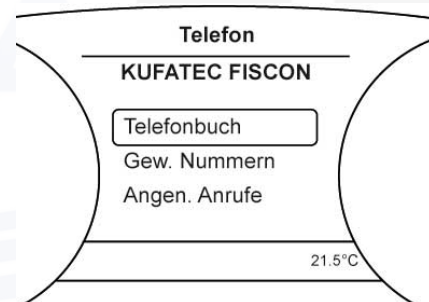


Fig.22

RCD 550

Furthermore the phone system can be operated through the keys / touchscreen of the radio.

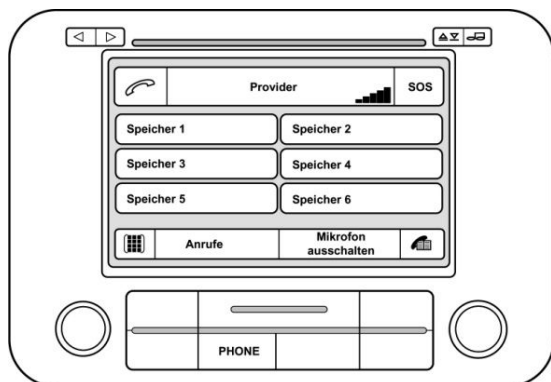


Fig.23

Menu structure

TELEPHONE BOOK



SELECTED NUMBERS



ANSWERED CALLS



CALLS BEEING REALIZED



DIRECT SELECTION



A2DP >> A2DP START

>> A2DP END



TRACK FORWARD



TRACK BACK



SMS >> NOT READ

>> SMS1

>> READ SMS



READ



NOT SENT



SENT



CALL



ANSWER



SEND SMS



SETTINGS



MICROPHONE SETTINGS



SIGNAL 0dB – 30dB



A2DP VOLUME



VOLUME 0 – 63



PHONE VOLUME



VOLUME 0 – 15



RING TON VOLUME



VOLUME 0 – 15



SW-UPDATE



(press 6 SEC.) UPDATE ACTIVATED



FACTORY SETTINGS



OK



VERSION

Menu structure

MFA Display	Description
TELEPHONE BOOK	Access to the telephone book of the mobile phone. Note: Not each mobile phone supports the telephone book synchronization. In case of a large quantity of call numbers the synchronization can take some time. Avoid breaks during the synchronization process. The telephone book function of the hands-free speaking system is limited to 1000 entries (sub-entries included).
SELECTED NUMBERS	If supported by the phone you can select a phone number through this menu item that you previously called.
ANSWERED CALLS	If supported by the phone you can select a phone number through this menu item that you previously called and the call was answered.
CALLS IN PROGRESS	If supported by the phone you can select a phone number through this menu item that you previously called and the call was not answered.
DIRECT SELECTION	Through this menu item you can make a direct entry (digits 0-9) and call this phone number.
A2DP	If supported by the phone, through this menu item the access to the music files stored in the mobile phone can take place. Through the MFL resp. FIS/MFA-Wippe there takes place the particular titel selection (TRACK FORWARD, TRACK BACK). Through the menu item 2DP END the playback of the music files stored in the mobile phone can be finished.
SMS	If supported by the phone through the SMS menu item the access to the READ, UNREAD, SENT and UNSENT short messages takes place. You have the possibility to read the received SMS, to call the number of the sender or to send the pre-prepared SMS.
SETTINGS	In this menu item the basic settings of the HSS can be carried out – microphone enhancement, sound volume regulatong for A2DP/ ring ton/ conversation partner, SW-Updates and factory settings can be restored.
VERSION	Information about the actual telephone Interface Version

Operation notes

Teaching-in

1. Press the **PHONE** key on the radio
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 in the mobile phone – **1234** – confirmation

After the completion of the teaching-in process the figure 24 appears on the phone surface. Also, if supported by the phone, the name of the phone provider and the field intensity will be presented.

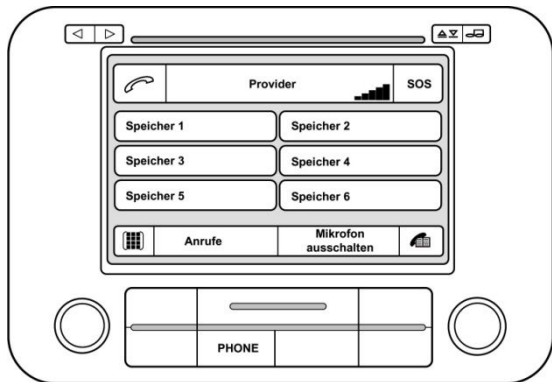


Fig. 24

Bluetooth device quantity – Up to **5 mobile phones** can be stored.

When the next phone should be stored then the factory settings have to be restored.

Factory settings

Actuate the menu items **SETTINGS > FACTORY SETTINGS**

NOTE: If the factory setting should be activated, so all the previously taught-in phones will be deleted.

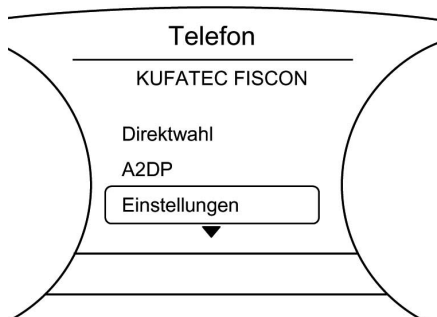


Fig.25

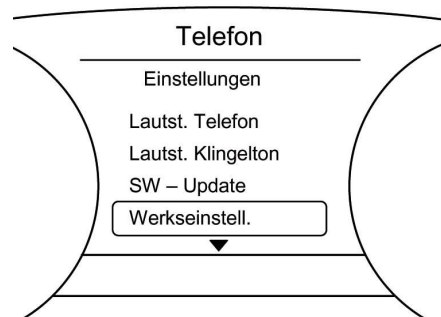


Fig.26

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 quantity of call numbers the synchronization can take some time. Avoid breaks during the synchronization.

Press the  key (fig. 27).

Select a telephone book entry and press the **SELECT** key (fig. 28).

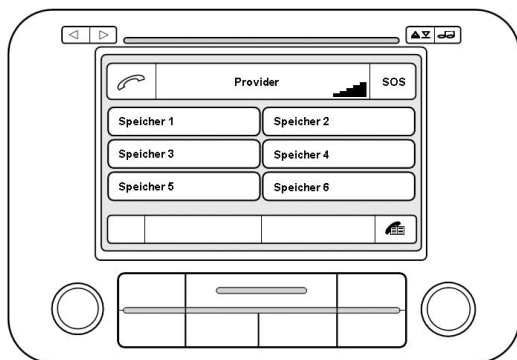


Fig.27

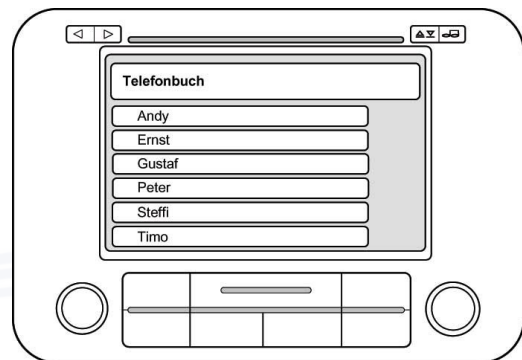


Fig.28

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!

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 phone book has to be fully loaded.
3. Enter the following code in the mobile phone: ***582#5000 or 258225000**
4. After the entry of the code confirm by the **SELECT** key on the phone  (fig. 29)
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. 29

NOTE: After the entry of the code the connection between the phone and 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 FISCON system.
2. The telephone book has to be fully loaded.
3. Enter the following code in the mobile phone: ***582#5001 or 258225001**
4. After the entry of the code confirm by the **SELECT** key on the phone  (fig.30)
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.

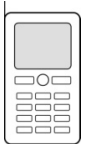


Fig.30

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.

Icon presentation

In case of storing of different numbers in the telephone book menu there will be presented the following icons:



Telephone book search function




Select the menu item **TELEPHONE BOOK**. Press the key  for **2 seconds**. Afterwards by means of the keys   you can switch to the particular initial letters (A...B...C...). End the search mode with the **OK** – key.



Fig.31

Establishing of a call from the call lists

Actuate the key combination **CALLS > SELECTED / ANSWERED / IN ABSENCE**

Select the phone number and press the **SELECT** key.

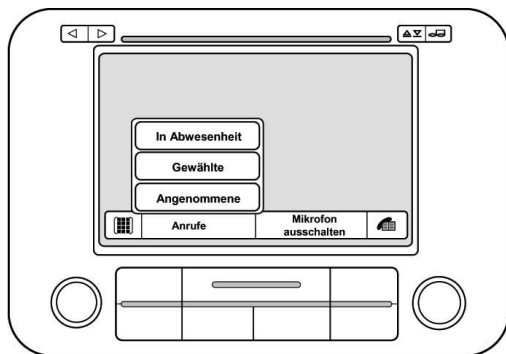



Fig.32

NOTE: The mobile phone has to support call lists.

Establishing of a call through the numerical pad

By means of the numerical pad enter directly the required phone number. Press the  key (fig.33), enter a phone number and press the **SELECT** key.

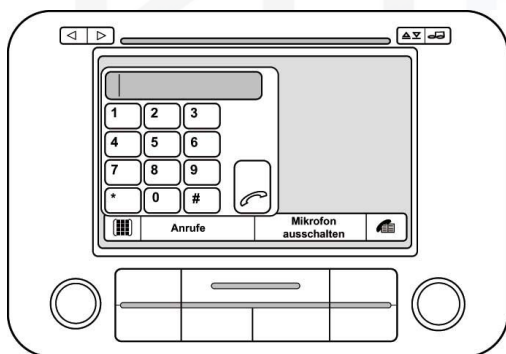


Fig.33

Direct selection

Select the menu item **DIRECT SELECTION** and confirm the selection (fig. 34). Entry of a required call number - the call takes place after the confirmation (fig. 35).

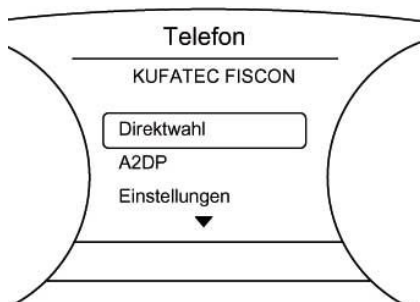


Fig.34

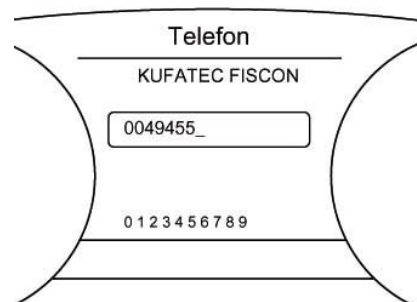


Fig.35

Incoming calls

An incoming call activates the mute switching. The caller name is displayed (if supported by the phone). In case of not stored names a call number display takes place.

Actuate the **ANSWER** or **REJECT** keys.

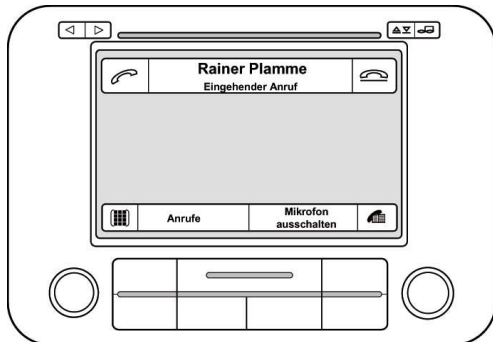


Fig. 36


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.

A2DP Activation

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

6. Establish as usual a Bluetooth connection between telephone and FISCON system.
7. Actuate the **TEL** key on the radio
8. Enter the following code: **258#224001** (deactivation **258#224000**)
9. After entering of the code press the **SELECT** key  (key. 37)

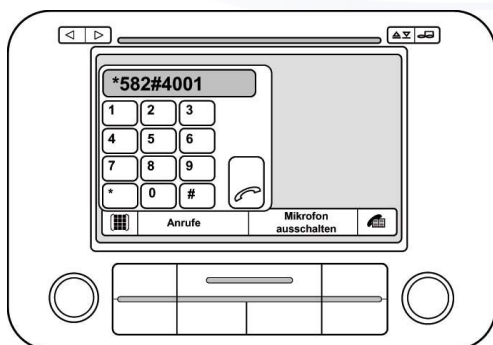


Fig.37

NOTE: As of FISCON Software index 1.85 the following code can be applied: **258224001**.

The announcement, that the number does not exist, takes place. The activation was carried out.

After the activation (call connection) was established  **let the vehicle switch to the idle state.**

NOTE: Lock the vehicle for about 5 minutes.



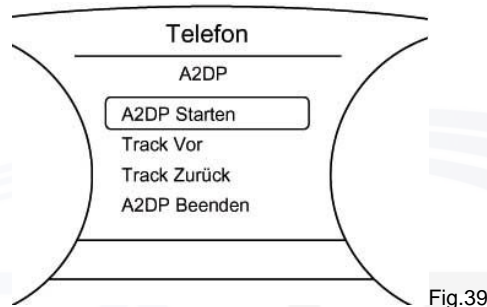
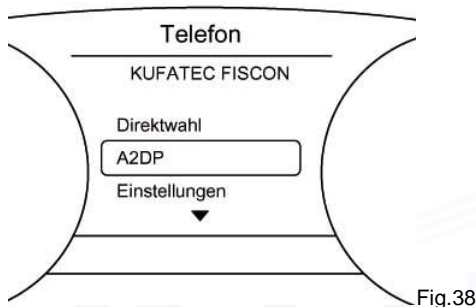
The activation can be done also by means of the mobile phone. For this purpose enter the activation code in the phone.

NOTE: The method is accessible, provided that the mobile phone supports the **call number transfer**. Should the mobile phone not possess this function, it is necessary to use a phone that supports the call number transfer.

The operation of the A2DP takes place through the MFL.

Select the menu items **A2PD > A2PD START** and confirm the selection (fig.38). Through the selection of the menu items **TRACK FORWARD/ TRACK BACK** the title selection takes place. By means of the menu item **A2DP END** the playback of the music files will be finished (fig. 39).

NOTE: The orders are partially not supported by the phone.



SMS

NOTE: The mobile phone has to support the synchronization for the SMS function per Bluetooth. The number of the SMS is limited to 30 (not read + read) whereby the unread messages have preference.

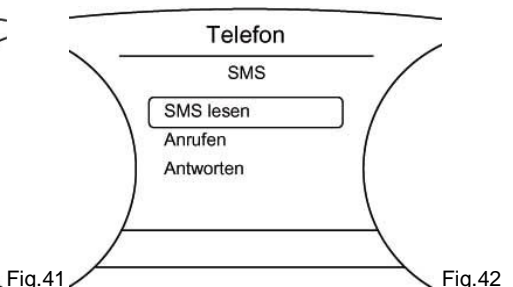
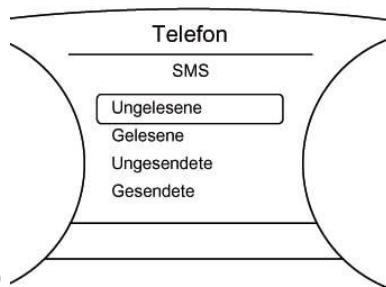
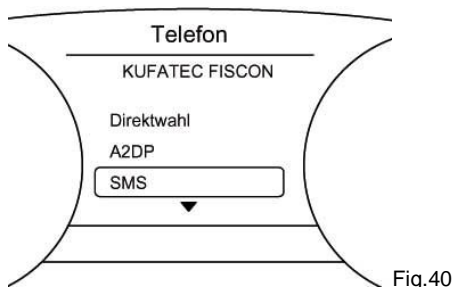
Actuate the menu item **SMS** in order to have access to the **UNREAD, READ, UNSENT** and **SENT** short messages (fig. 40-42).

Select the short message (SMS1, SMS2...) and select one of the following options.

READ SMS

CALL (Call of the SMS-senders)

ANSWER (send pre-defined SMS)



Settings

Select the menu item **SETTINGS**. Select the required menu items:

MICROPHONE SETTINGS (signal enhancement of 0dB - 30dB)

A2DP VOLUME (value 0 - 63)

PHONE VOLUME (interlocutor value 0 - 15)

RING TONE VOLUME (value 0 - 15)

SW UPDATE (Update activation)

FACTORY SETTINGS (setting back the factory settings) ... and confirm the selection.

NOTE SW UPDATE: Go up to the menu item SW UPDATE. In order to activate the update keep the key pressed during the time of 6 seconds.

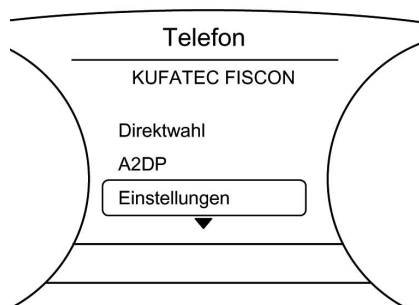


Fig.43

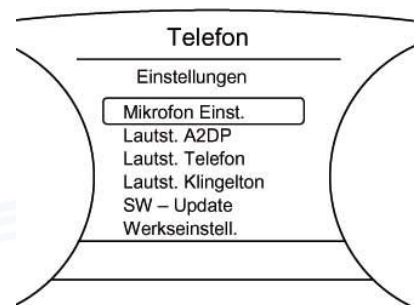


Fig.44

DTMF tone selection procedure

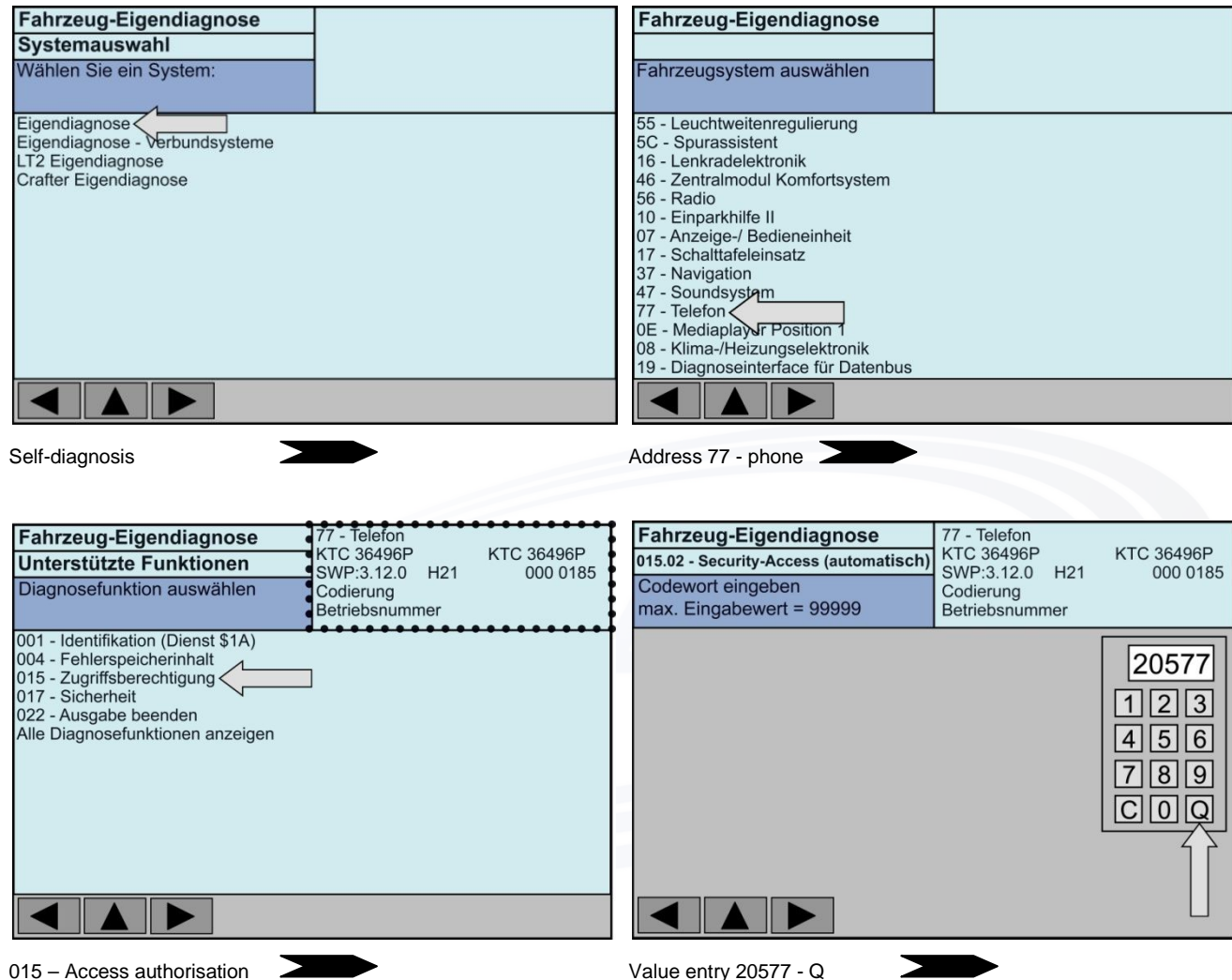
This function is suitable e.g. for the remote enquiry of answering machines or control of phone computers in the call centers.

During an active phone conversation there is the possibility to select the menu item DTMF. Through the MFL the particular digits can be transferred.

Interface - Diagnosis

By means of the VW vehicle diagnosis system VAS specific data of the FISCON system can be recalled and a **RESET** of the system can be carried out.

Execution of the Interface Reset



Value entry 20577 --- Q (confirm) --- RESET carried out

Note: During the execution of the RESET the actual Bluetooth connection to the phone is broken.

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 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 phone.

- *If there is a Video Interface of a different brand installed in the vehicle, a trouble-free function cannot not guaranteed.*
- *Mobile phone preparations of any kind, that communicate with the CAN Bus have to be removed from the vehicle.*
- *The system has to be encoded specifically according to the radio and the vehicle.*

Why the mute switching suspends in particular time intervals

- *In the vehicle there is a factory installed hands-free speaking system.*

FAQ – Online

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