

## Installation Instructions Product-Ident: 65500

### 3-way-soundsystem, Fiat Ducato III, models from 06/2006

#### Technical Details:

Car Features:

Model/Year:

Ducato (06.2006)

Setup-Advice:

To reach the best performance, the setup of the radio (Bass, Loudness etc.) should be null or neutral.

recommended amplifier power: from 2x 120 - 200 Watt / 2 Ohm



#### Parts list:

- 2x XE 26 - Neodymium-Tweeter  $\varnothing$  26mm (1") incl. mounting device, Hex nut M4, washer  $\varnothing$  12mm
- 2x XM 110 - High-End-midrange driver,  $\varnothing$  100mm (4")
- 1x midrange module (right + left) FIAT Ducato, mod. from 06/2006 (65500), cover: artificial leather
- 2x XM 165 - Low midrange driver, power woofer  $\varnothing$  165mm (6,5")
- 2x mounting adapter for XM 165
- 1x 3-way crossover (right+left, 2-parts) Ducato - no. 65500
- 4x insulation fleece 20x20cm

#### Garantee:

**We grant a manufacturers guarantee of 2 years starting from the date of purchase of the doorboard or sound system from the dealer. Within this guarantee period to our choice we either repair or replace free of charge all defects due to material or workmanship. Exempt from this guarantee are damages due to improper use, wear and tear or damages which have to be led back on wear or interventions by third parties. The guarantee does not cover subsequent damages or such defects that only insignificantly impair the value or the usability of the doorboard/sound system. The guarantee does not cover damages due to external influences. Doorboards with additional or wrong assembly drill holes cannot be returned. These are damages to the doorboard which cannot be repaired again.**

## 1 Installation crossover circuit - woofer

### Place of installation: door card under the switch board

**1.1** Lever out the speaker grille in the car door - start from the bottom. Dismount the speakers and unplug the connecting cables.

The original screws are used to affix the Jehnert speaker adapter.

**1.2** Lever out the switch board in the car door **or** in order to avoid scratches: pull it upward away from the bottom through the speaker hole. Use a long screw driver.



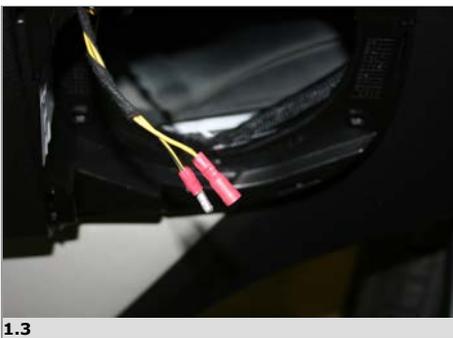
1.1



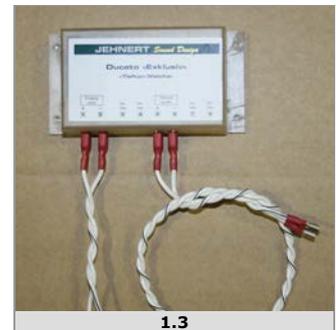
1.2

### 1.3 Adaptation radio - crossover woofer:

Lead the original speaker connection behind the door card up to the switch board and through the hole and connect with the crossover.



1.3



1.3

**1.4** Lead the speaker cable from the crossover's output to the place of the woofer mounting.

**1.5** Insert crossover (see fig.) – covered with foamed material - in the opening of the switch board and ensure for precise fit.



1.5

## 2 Woofer installation: Original mount of the car door

The original speaker in the door door is replaced by the JEHNERT 165mm Power Woofer:

2.1 Install the woofer adapter with the original mounting parts.



2.1 woofer adapter

2.2 Connect and insert the JEHNERT woofer.

**⚠ In order to avoid vibration noise secure all cables with insulating tape e.g.**

**⚠ Notice:** You should check the polarity of the woofer after having connected them to the crossover circuit with a 9 volt battery (input cable on the side of the amplifier):

pole of the crossover circuit input + to + of a 9 Volt battery

pole of the crossover circuit input - to - of a 9 Volt battery

**The woofer must move uniformly!**

**⚠ Wrong polarity of a woofer can totally equalize the bass sound!**

2.3 Reinstall the original speaker grill.



2.1

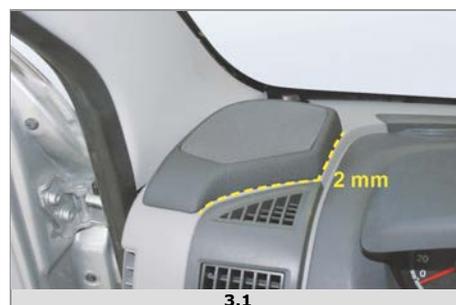
## 3 Mittelton-Modul: Montage Armaturenbrett

3.1 Adapt the JEHNERT midrange-module (without the speakers) with a distance of about 2mm and mark the speaker cut-out (see fig.).

3.2 Cut out the speaker part with a compass saw.



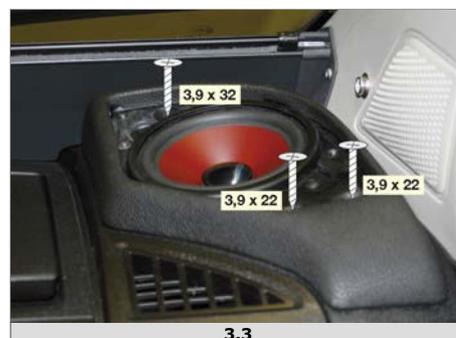
3.2



3.1

**⚠ The fastenings of the module must have to be screwed with the dashboard!**

3.3 Fasten the midrange-module with the 3 screws supplied with (see fig.) and secure with sheet metal clamps.



3.3

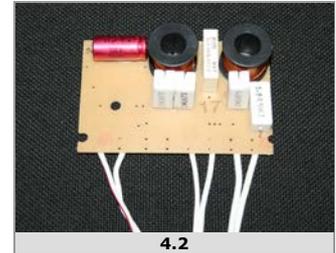
## 4 Installation of crossover circuit: midrange-tweeter

**Place of installation: under the A-pillar in the dashboard.**

**4.1** Dismantle the A-pillar - start from the top and pull it away.

### 4.2 Adaptation Radio - crossover midrange-tweeter: driver's- and co-driver's side

Lead the original speaker cable in the A-pillar under the dashboard up to the open part of the midrange-module and connect it with the crossover »input«.



4.2

<u>Original cable - colours / configuration</u>			
Connect the tweeter cable with »input« of the midrange tweeter crossover.			
<u>front</u>			
<u>driver's side / left:</u>		<u>co-driver's side / right:</u>	
yellow / yellow = +		purple / orange = +	
yellow / black = -		purple / black = -	
<u>rear</u>			
<u>driver's side / left:</u>		<u>co-driver's side / right:</u>	
orange / orange = +		green / green = +	
orange / black = -		green / black = -	

4.2

**4.3** Connect the midrange speaker with the crossover and lead the tweeter cable from the crossover to the A-pillar.

**4.4** Install crossover – **without enclosure\***; covered with foamed material - between dashboard and A-pillar (see fig.) and ensure precise fit



4.3



4.4

**\*Important:**

**Protect the sheet bar against humidity and observe that the sheet bar does not touch any metal parts – danger of short circuit!**

**Tip:** Additionally secure all cable plug-in connections with an insulating tape or something similar.

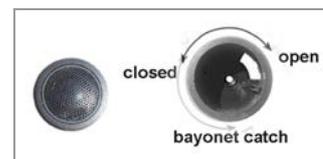
**In order to avoid vibration noise secure all cables with insulating tape e.g.**

**4.5** Insert and screw the midrange speaker. Firmly press on the grilles of the module.

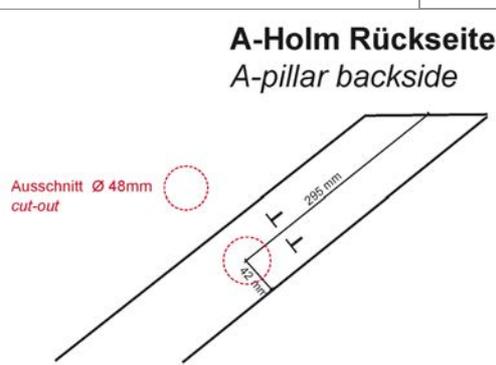
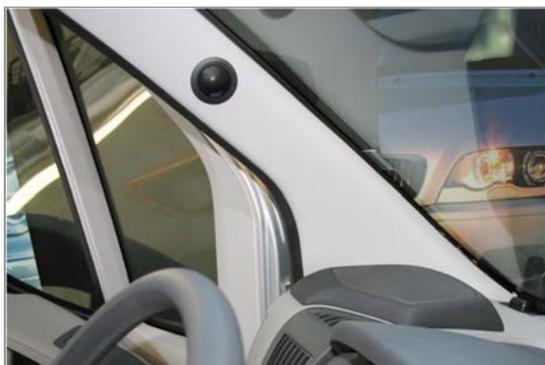
## 5 Tweeter installation A-pillar - with mounting device

### 5.1 Remove the tweeter out of the catch:

---> bayonet catch: turn to the right and pull out of the holding device - by means of the screw.  
(No more need of the catch).



### 5.2 Position the tweeter mounting device on the A-pillar and mark it.



### 5.3 Drill the speaker cut-outs and adapt them exactly to the backside of the mounting device to »Ø 48mm«.

**TIP:** drill a little bit smaller and carefully adapt to »Ø 48mm« by using a "Dremel" (multifunctional rotary tool)

### 5.4 Insert the mounting device.

**Check:** The mounting device has to end plane on the front side of the A-pillar and the JEHNERT signet has to be exactly horizontal on the tweeter. --> consider the turn of the bajonet catch!

### 5.5 Backside of the A-pillar:

Affix all around with hot melt adhesive.

5.6 Insert the JEHNERT tweeter in the grooves on the edge of the mounting device and lead the tweeter cable through the cable entry in the mounting device. Fasten the tweeter with a slight turn to the left (bajonet catch).

5.7 **Front side of the A-pillar:** Exactly adjust the tweeter with mounting device as described (see under "check")

5.8 Connect the Jehnert tweeter with the midrange-tweeter crossover.

**In order to avoid vibration noise insulate all cables with insulating tape e.g.**

5.9 Reinstall the A-pillar.