

manual.



**scheel-mann**

**Retrofit seats for comfortable and ergonomic driving**  
Mounting and operating manual

made by  GREINER

---

# **scheel-mann**

## **Mounting and operating manual**

Item No.: 0815502

Last updated: 16.10.2019 / Rev.: 2

Copyright: © 2019 GREINER GmbH

All copyrights to this mounting and operating manual remain with GREINER GmbH. Reprinting - even in extracts - is not permitted. The transfer of this manual to third parties requires the written permission of GREINER GmbH. Any use or modification outside the narrow limits of copyright law is not permitted without the consent of GREINER GmbH. This applies in particular to duplication, translation, microfilming and storage as well as processing in electronic systems.

SCHEEL-MANN\_manual\_EN\_0815502\_rev\_2.docx

---

## Table of contents

<b>1</b>	<b>General</b>	<b>4</b>
1.1	Scope of delivery	4
<b>2</b>	<b>Mounting</b>	<b>5</b>
2.1	Mounting the guide rails (option)	5
2.2	Mounting the armrests (option)	7
2.3	Installing the seat in the vehicle	8
2.3.1	Electrical connection (option)	8
<b>3</b>	<b>Structure</b>	<b>9</b>
<b>4</b>	<b>Operation</b>	<b>10</b>
4.1	Seat length adjustment (option)	10
4.2	Backrest inclination adjustment	10
4.3	Headrest adjustment	11
4.4	Folding the backrest (option)	12
4.5	Seat depth adjustment	12
4.6	4-way lumbar support (option)	13
4.7	Side bolster adjustment in backrest	13
4.8	Heating in seat and back (option)	14
4.9	E-package for Vario and Vario XXL	14
4.10	Armrest adjustment (option)	15
4.11	LR Edition	15

## 1 General

This mounting and operating manual (hereinafter also referred to as the "manual") also describe functions or features that may not be included in your retrofit seat (hereinafter also referred to as the "seat").

We reserve the right to make technical changes without notice within the scope of further development of the seat described in this manual.

The original of this manual was written in German. All other languages are translations of this manual.

### Validity

This manual applies only to the seat and accessories supplied by GREINER GmbH (also abbreviated to GREINER).

### Manufacturer

GREINER GmbH  
Wettestraße 1  
74385 Pleidelsheim / Germany  
Phone: +49-7144-8112-0  
Fax: +49-7144-8112-99  
info@greiner-gmbh.de  
www.greiner-gmbh.de

### Note on pictorial representations

The photos / illustrations are general illustrations and may differ from the actual conditions or from the components actually used.

### Warranty and liability

Our General Terms and Conditions (GTC) apply in the currently valid version at [www.greiner-gmbh.de](http://www.greiner-gmbh.de).

In the event of a complaint (damage, defects or other reasons for complaint), your specialist distributor is the appropriate contact person.

### Disposal

During the construction of the seat, care was taken to ensure that, wherever possible, no composites were used. This design concept allows a high degree of recycling once the seat has reached the end of its service life.

In the event of scrapping, dispose of metal and plastic parts separately and properly.

If you have any queries, please contact your local municipality, local waste disposal company or our service.

Country-specific disposal regulations must be observed!

## 1.1 Scope of delivery

### Standard

- Individually packed seats (reclining position)
- Headrest removed and enclosed
- Set of screws for fastening  
6x cylindrical screw with flat head  
(DIN 7984 M8 x 25 mm galv. strength class 8.8 polyamide coated)  
6x internal toothed washer  
(DIN 6797 I M8 galv.)
- This mounting and operating manual

### Option

- Guide rail set (left and right running rail with release lever)
- Vehicle-specific adapter or console
- Armrest(s) with one fastening screw set each  
(DIN 7991 M10 x 30 mm and M10 x 50 mm strength class 8.8 black polyamide coated version)  
**It is absolutely essential to use 30 mm long fixing screws.**  
If necessary, dispose of fastening screws with a length of 50 mm.

### 2 Mounting

1. Raise up the backrest (see 4.2 Backrest inclination adjustment) (without Fig.).
2. Insert headrest correctly (see 4.3 Headrest adjustment) (without Fig.).

#### 2.1 Mounting the guide rails (option)

The mounting of the optional guide rail set of the company GREINER GmbH is described here.

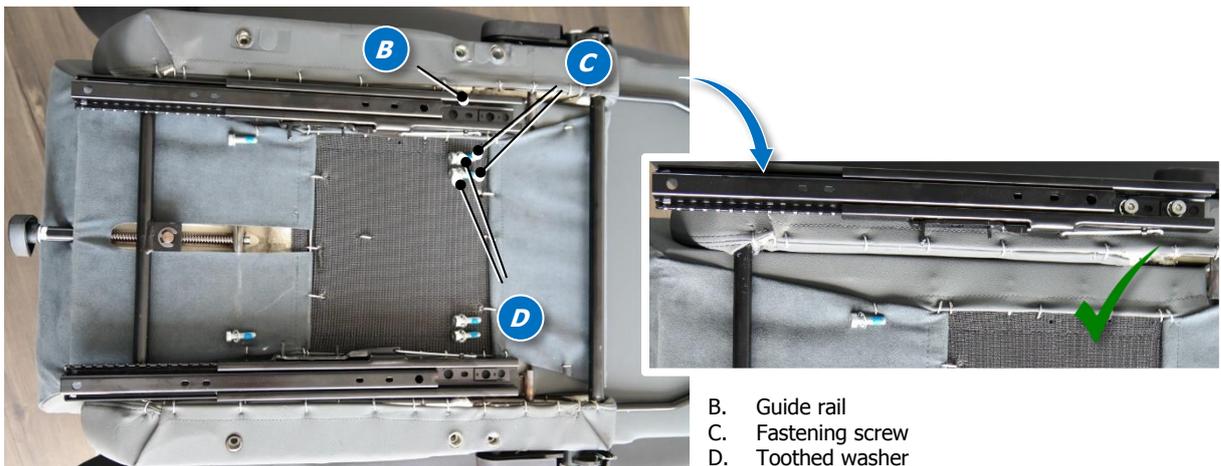
1. Move the two guide rails to the mounting position as shown.  
If necessary, after loosening the locking mechanism (screwdriver), move the guide rails until the two rear mounting points (A) are accessible.



A. Rear mounting points

Fig. 1 Mounting the guide rails (option) - move the guide rails into mounting position

2. Move the seat to the mounting position (seat in reclining position - seat and backrest upholstery downwards - use a clean underlay, if necessary).
3. Align the two guide rails (B) as shown (do not mix up right and left or top and bottom).
4. First screw in the two rear fastening screws (C) together with the toothed washers (D) (only apply the screw head - do not tighten).



B. Guide rail  
C. Fastening screw  
D. Toothed washer

Fig. 2 Mounting the guide rails (option) - screw in rear fastening screws (do not tighten)

5. After loosening the locking mechanism (screwdriver), the guide rails must be moved until the front mounting points (E) are accessible.
6. Now screw in the corresponding front fastening screw (F) together with the toothed washer (G) and tighten to 25 Nm.



E. Front mounting points  
F. Fastening screw  
G. Toothed washer

Fig. 3 Mounting the guide rails (option) - screw in and tighten the front fastening screws

7. Hook in the release lever (H) correctly (offset must point downwards).

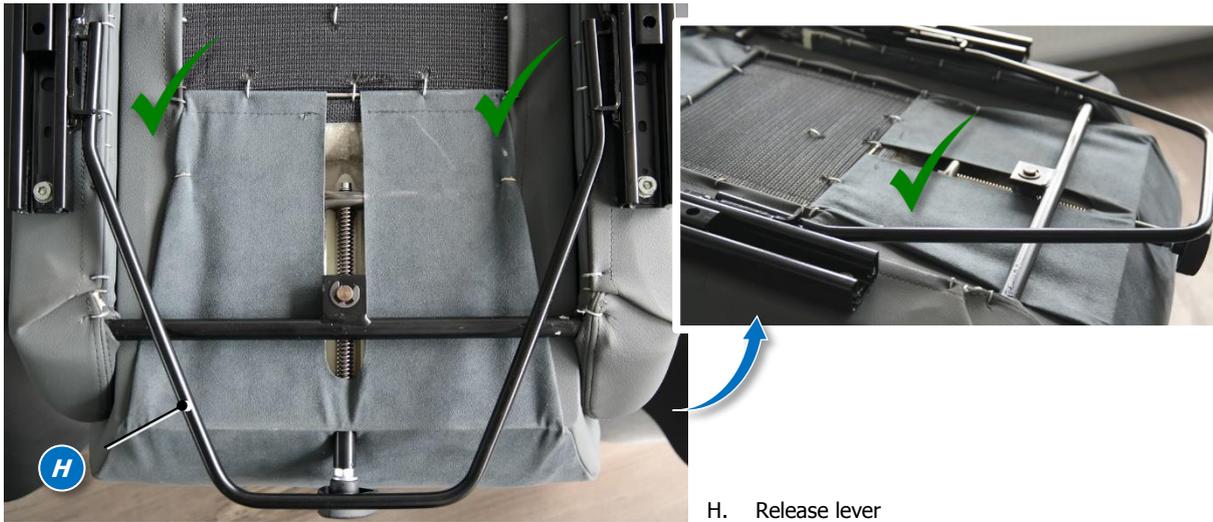


Fig. 4 Mounting the guide rails (option) - hook in release lever

8. Now operate the release lever and move the guide rails until the two rear mounting points are accessible.  
9. Then tighten each of the two rear fastening screws to 25 Nm.



Fig. 5 Mounting the guide rails (option) - tighten the rear fastening screws

10. Carry out a final functional check of the guide rails and their locking mechanism (see 4.1 Seat length adjustment (option)).

**WARNING** The fixing of the seat is relevant to safety and must therefore be strictly observed.



The standard screw set for fastening is matched to the optional guide rail set of GREINER GmbH. When fastening to other guide rails or directly to adapters or brackets, the minimum or maximum screw-in depth from the surface contour of the six screw-on points on the seat must be observed.

- Minimum screw-in depth 20 mm
- Maximum screw-in depth 25 mm

The selection of screws with regard to head shape and strength class must be based on the standard screw set for fastening by GREINER GmbH. When using screws not coated with polyamide, it is essential to use a suitable liquid screw locking.

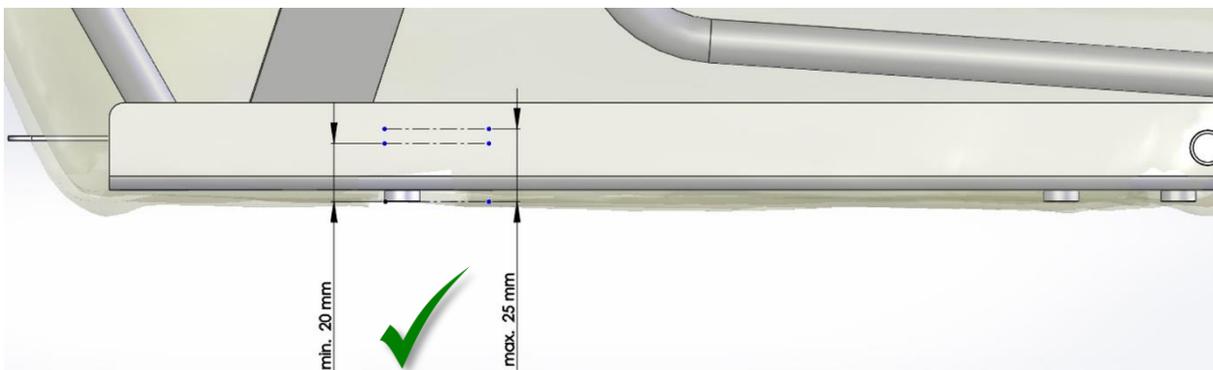


Fig. 6 Mounting the guide rails (option) - screw-in depth

### 2.2 Mounting the armrests (option)

The mounting of the optional armrests from GREINER GmbH is described here.

1. Remove the top provisional fastening screw (I) of the backrest fitting (galv. version - not polyamide coated).

**NOTE** Do not remove both fastening screws of the backrest fitting at the same time. This makes it unnecessarily difficult to install the armrest.

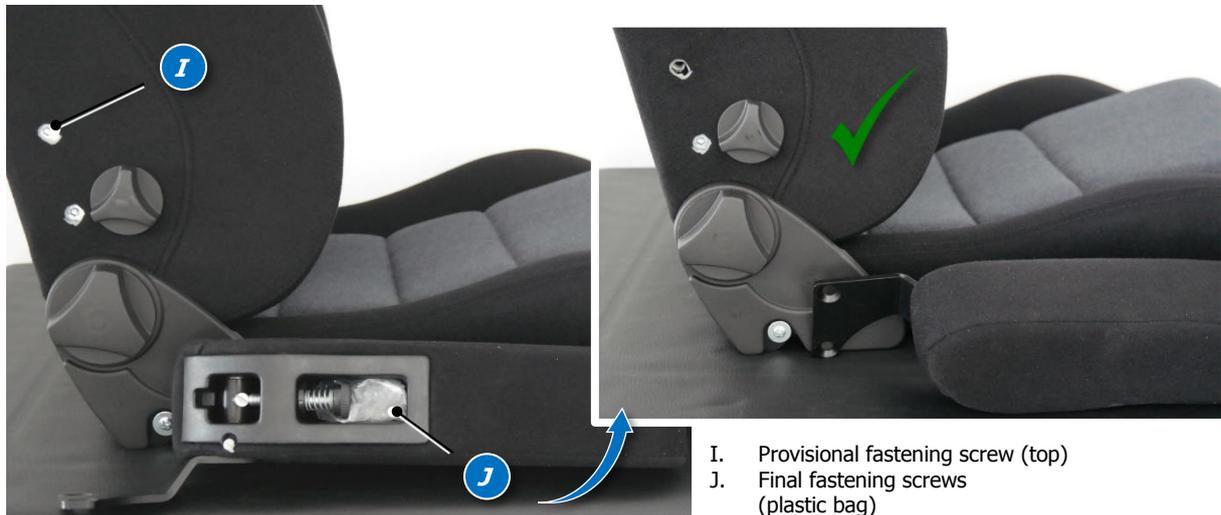


Fig. 7 Mounting the armrests (option) - remove provisional fastening screw (top)

2. Screw the supplied final fastening screw (J) into the top of the backrest fitting (only apply screw head - do not tighten). **If necessary, use liquid screw locking.**

**WARNING** The fixing of the backrest fitting is relevant to safety and must therefore be strictly observed. Use screws of the same length for the final fastening.



The provisional fastening screws must not be used for the final mounting of the armrests.

3. When replacing the bottom provisional fastening screw (K) of the backrest fitting, follow the same procedure as for the top one (without Fig.).
4. Now tighten the two final fastening screws to 48 Nm. If necessary, dispose of both provisional fastening screws (I + K).

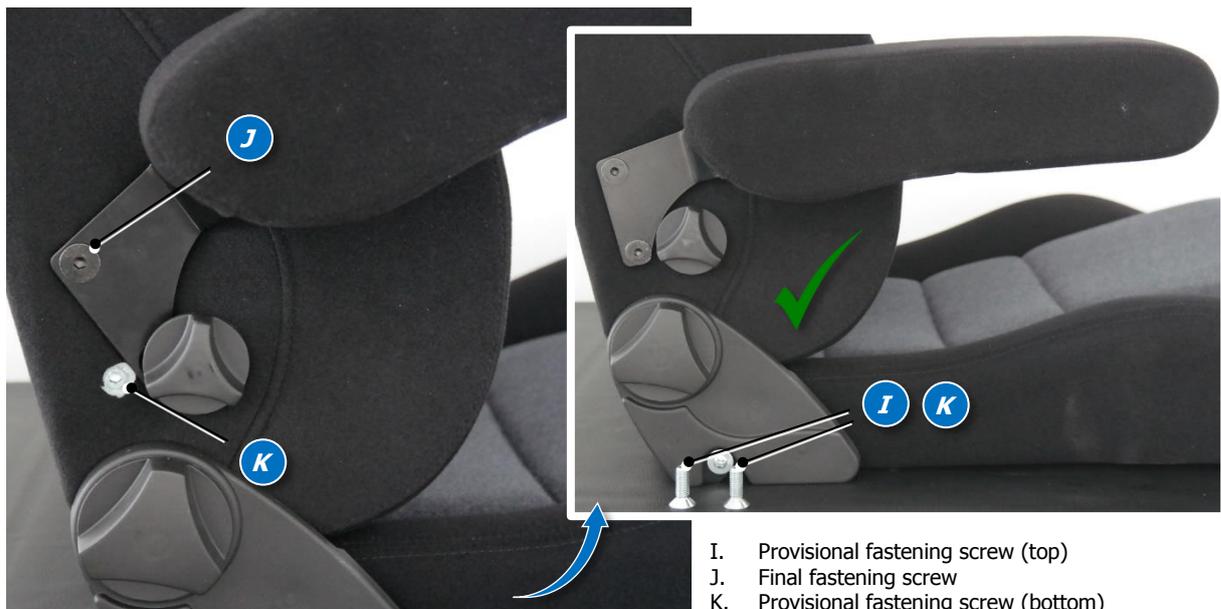


Fig. 8 Mounting the armrests (option) - screw in and tighten the final fastening screws

5. Carry out a final function check of the armrest(s) (see 4.10 Armrest adjustment (option)).

## 2.3 Installing the seat in the vehicle

The installation of the retrofit seat in the vehicle is described here. Globally it can be said that the fixing screws (usually 4) have to be removed and the retrofit seat has to be fixed to the vehicle structure by means of adapters or brackets.

**NOTE** Due to the variety of vehicles, the enclosed instructions must always be observed, depending on the version of the adapter or bracket used.

### 2.3.1 Electrical connection (option)

**NOTE** The battery must be disconnected before working on the electrical system of the vehicle. The security code for recommissioning the radio, navigation system etc. should therefore be available.

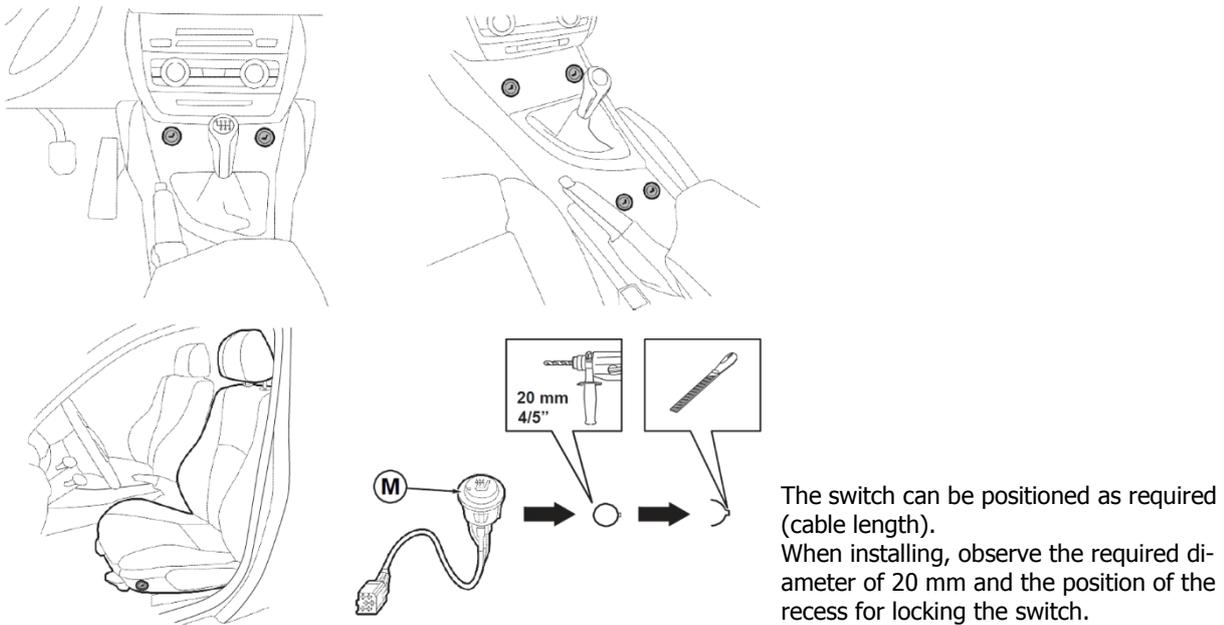
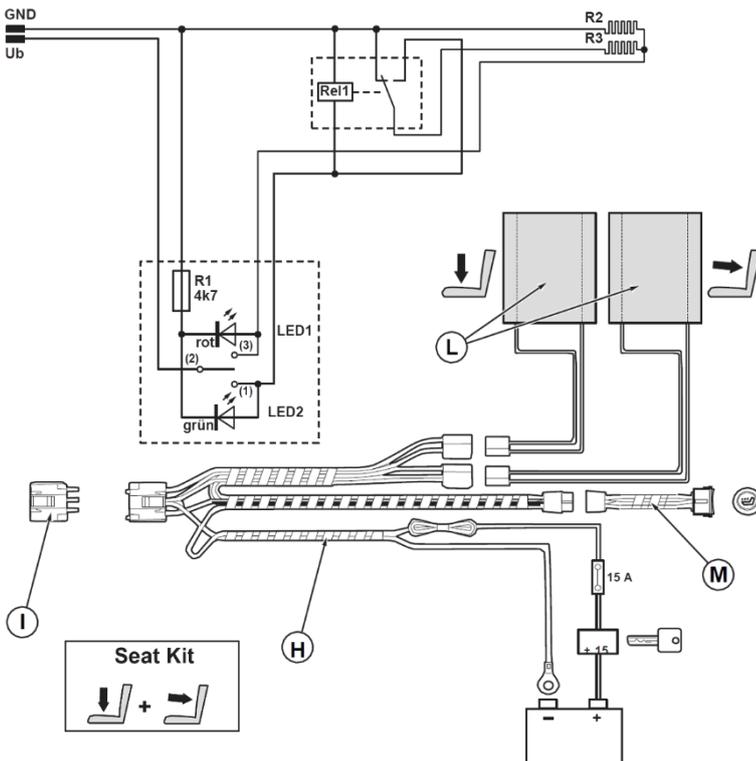


Fig. 9 Electrical connection (option) - installation of the switch for heating in the seat and back (cable harness)



The electrical connection is protected by fuses.

Fig. 10 Electrical connection (option) - circuit diagram for heating in seat and back (cable harness)

3 Structure

The structure of a retrofit seat is shown here using the example of a Vario F (0841124) without and with heating.



Fig. 11 Structure of the seat

- |   |   |
|---|---|
| 1. Seat length adjustment (option)                | 6. Side bolster adjustment in backrest          |
| 2. Seat depth adjustment                          | 7. Baggage net (option)                         |
| 3. 4-way lumbar support curvature adjustment      | 8. 4-way lumbar support height adjustment       |
| 4. Headrest                                       | 9. Backrest inclination adjustment - both sides |
| 5. Release folding backrest - both sides (option) | 10. Operating panel - heating (left or right)   |

## 4 Operation

The operation of a retrofit seat is shown here using the example of a Vario F (0841124) without and with heating.

### 4.1 Seat length adjustment (option)

By pulling the release lever (1), the complete seat can be pushed back and forth by means of guide rails. The adjustment is latching and is limited by stops on the guide rails.



Fig. 12 Seat length adjustment (option)

1. Release lever for length adjustment of the seat

### 4.2 Backrest inclination adjustment

The inclination of the backrest can be continuously adjusted using one of the handwheels (9) on both sides. The possible inclination range is limited by stops.



Fig. 13 Backrest inclination adjustment

9. Handwheel for backrest inclination adjustment

4.3 Headrest adjustment

The headrest (4) can be adjusted in height simply by pulling it out or pushing it in. The adjustment is noticeably engaging in 4 positions (11). The headrest can be tilted continuously. The possible tilt range is limited by stops. No tilt adjustment on Retro model.



Fig. 14 Headrest adjustment

**Removing the headrest on Traveller, Touring, Vario, Vario XXL and Retro models**

On the Traveller, Touring, Vario, Vario XXL and Retro models, the cotter pin (12) must be pressed right in the direction of travel to remove the headrest. To do this, carefully insert your hand between back upholstery and side bolster and feel the cotter pin. The cotter pin releases the lock when sufficiently twisted.

**Removing the headrest on the Sportline model**

On the Sportline model, the cotter pin must also be pressed right in the direction of travel to remove the headrest. To do this, feel the round release button (13) on the rear side. The cotter pin releases the lock when sufficiently twisted.



Fig. 15 Removing the headrests

## 4.4 Folding the backrest (option)

The backrest can be folded forward after pulling one of the release levers (5) on both sides. To fold back, simply move the backrest to the starting position.



Fig. 16 Folding the backrest (option)

## 4.5 Seat depth adjustment

The depth of the seat cushion can be continuously adjusted by means of the handwheel (2). Stops limit the possible adjustment range.

Exclusive feature on the Vario and Vario XXL models.



Fig. 17 Seat depth adjustment

### 4.6 4-way lumbar support (option)

The 4-way lumbar support can be adjusted in height and curvature using the two handwheels (3 + 8). Stops limit the possible adjustment ranges.

Not available on Sportline and Retro models.

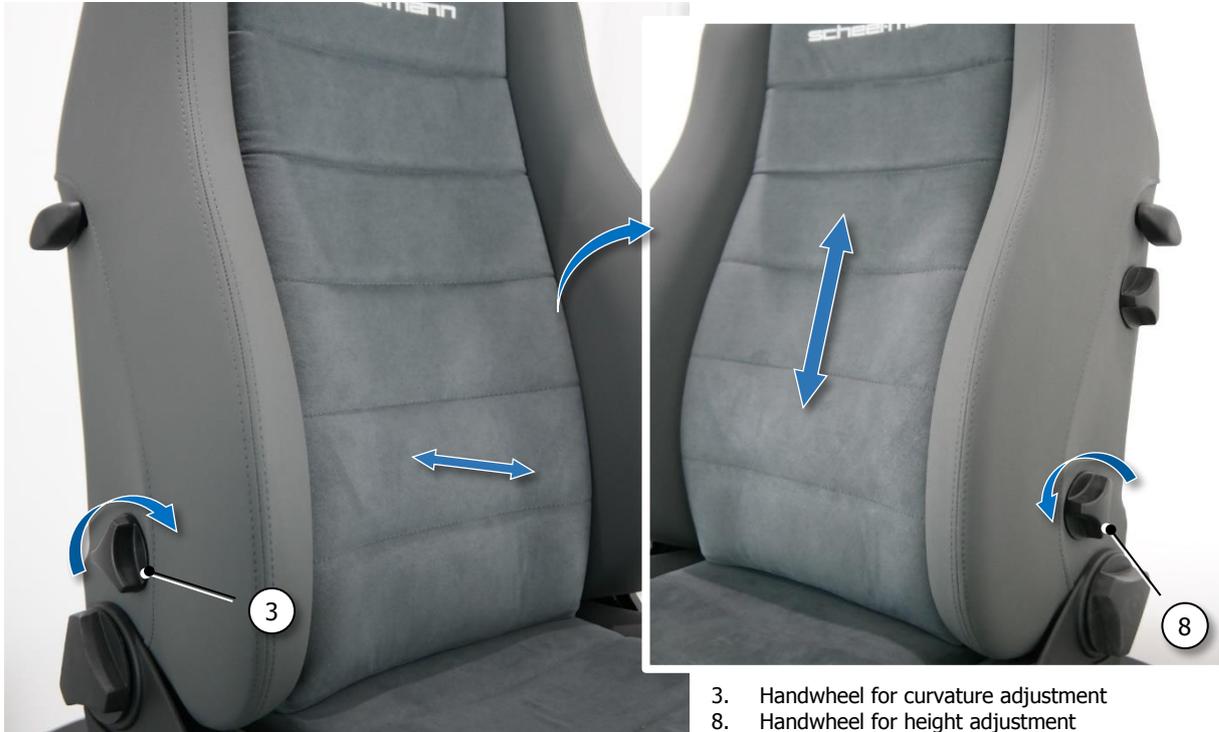


Fig. 18 4-way lumbar support (option)

### 4.7 Side bolster adjustment in backrest

The width of the side bolsters in the backrest can be continuously adjusted by means of the handwheel (6). Stops limit the possible adjustment range.

Exclusive feature on the Vario and Vario XXL models.



Fig. 19 Side bolster adjustment in backrest

## 4.8 Heating in seat and back (option)

The 2-level electric heating, installed in the seat and backrest, is supplied directly with 12 V DC via a cable harness by means of relays. The position of the switch (14) and a two-colour LED signal the actual operating status. The switch is either installed in an operating panel (10) (left or right) or on a cable harness for free installation in a suitable position in the vehicle (see 2.3.1 Electrical connection (option)).  
Version with operating panel not available for the models Sportline T/F and Retro.

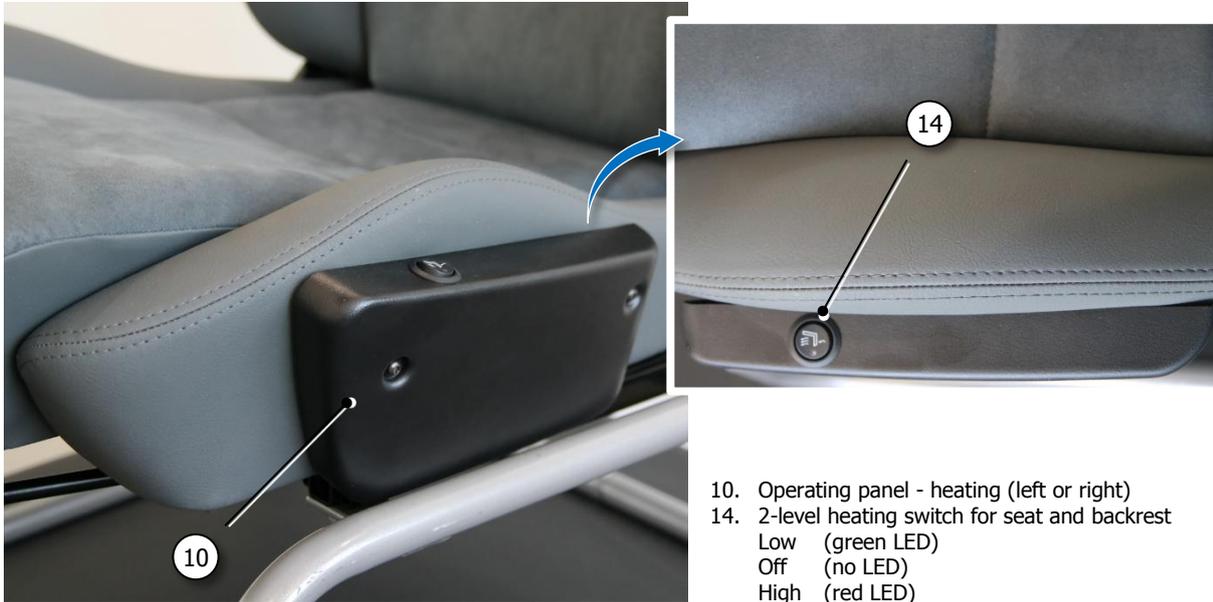


Fig. 20 Heating in seat and back (option)

## 4.9 E-package for Vario and Vario XXL

**NOTE** Not applicable to KBA products with approval number 91800.  
Information on this equipment variant can be found in the supplementary "Operating manual - E-package".

## 4.10 Armrest adjustment (option)

The height of the folded down arm support (15) can be adjusted with the aid of a stopping screw (16). To fold up, simply guide the arm support upwards. The stop screw and a fixed stop between arm support and armrest holder (17) limit the possible range of movement. The movement of the arm support can be adjusted by means of a plastic clamping screw (18).  
Not available for model Retro.



Fig. 21 Armrest adjustment (option)

## 4.11 LR Edition

The scheel-mann LR Edition models are based on the basic models, but are specially optimized for installation in the Land Rover Defender®. The foldable seat (approx. 90°) allows quick access to the on-board electronics. Simply pull the safety splint (19) out of the bolt (20) and fold up the seat (21). To fold the seat back, return it to its original position and reinsert the bolt. To fasten the seat, reinsert the safety pin and re-engage it correctly.

**NOTE** To install the scheel-mann retrofit seats, in vehicles 90 and 110 with hardtop, a conversion of the bulkhead wall is necessary.



Fig. 22 LR Edition



GREINER GmbH  
Wettestraße 1 · 74385 Pleidelsheim · Germany  
T +49 7144 81120 · F +49 7144 8112 99  
info@greiner-gmbh.de · www.greiner-gmbh.de

