

manual.



scheel-mann

Retrofit seats for comfortable and ergonomic driving
Mounting and operating manual

made by  GREINER



Mounting and operating manual

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1 General

This mounting and operating manual (hereinafter also referred to as the "manual") is a general manual covering multiple seat models, and may describe functions and 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.

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 Included in box

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 2x M10 x 30 mm and 2x M10 x 50 mm strength class 8.8 black polyamide coated version)

It is absolutely essential to use 30 mm long fixing screws for non- seatbelt seats and 50 mm for seatbelt seats

2 Mounting

THESE ARE GENERAL INSTRUCTIONS AND ARE NOT VEHICLE-SPECIFIC.

PLEASE CONSULT ANY VEHICLE-SPECIFIC INSTRUCTIONS PROVIDED BEFORE STARTING ASSEMBLY.

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.

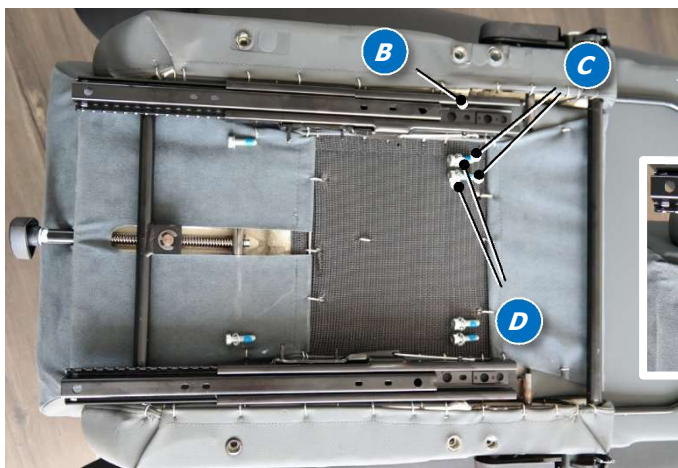
1. Move the two guide rails to the mounting position as shown.
If necessary, after loosening the locking mechanism (screwdriver), move the guide rails until the two rear mounting points (A) are accessible.



A. Rear mounting points

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

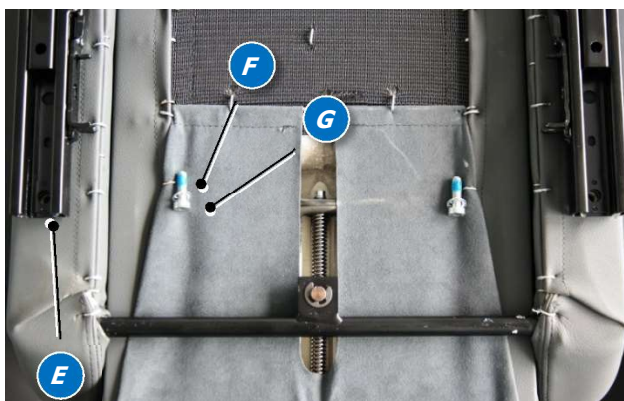
2. Move the seat to the mounting position (seat in reclining position - seat and backrest upholstery downwards - use a clean underlay, if necessary).
3. Align the two guide rails (B) as shown (do not mix up right and left or top and bottom).
4. First screw in the two rear fastening screws (C) together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

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

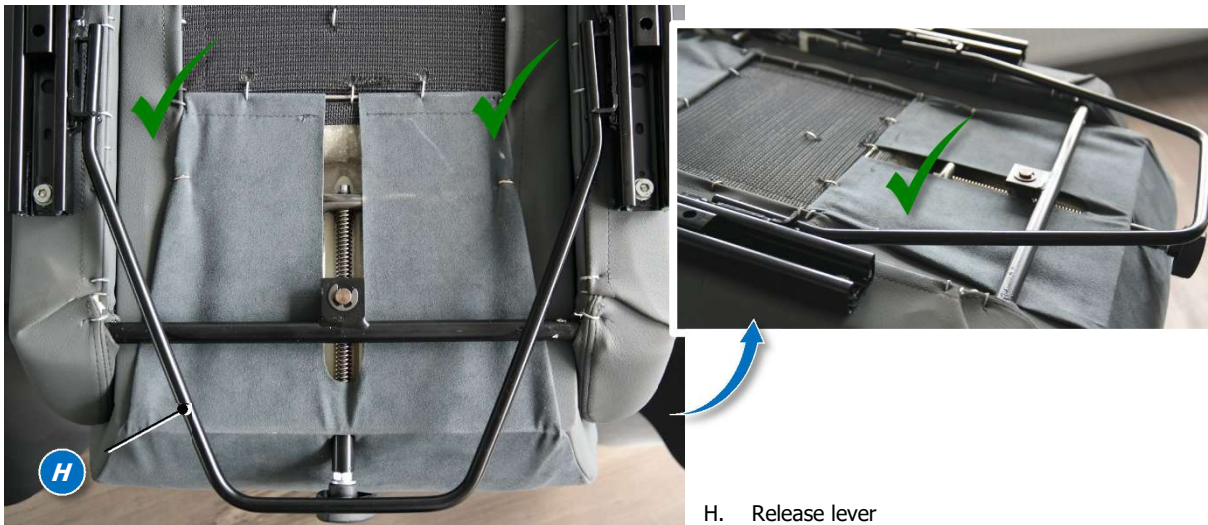


Fig. 4 Mounting the guide rails (option) - hook in release lever

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



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

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

WARNING Securely attaching the seat to the mounting surface is critical to a safe installation



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.

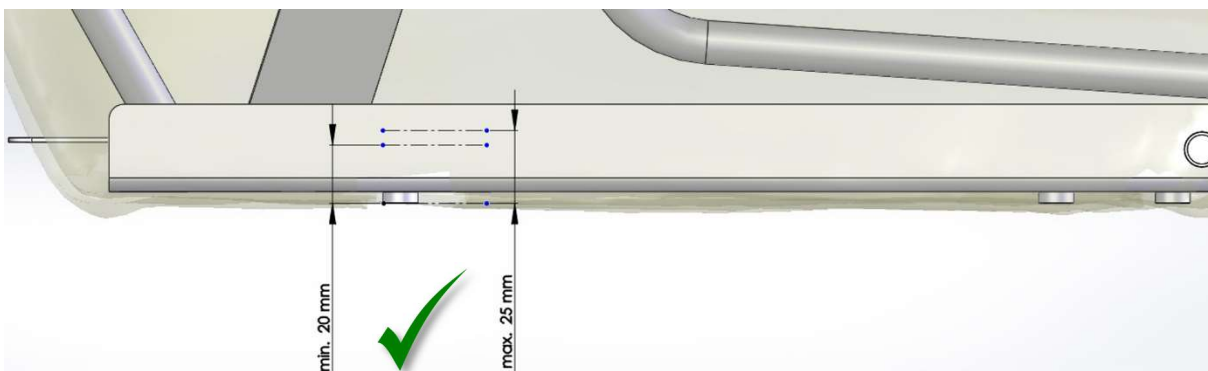


Fig. 6 Mounting the guide rails (option) - screw-in depth

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 4.9 Armrest adjustment (option)).

2.3 Installing the seat in the vehicle

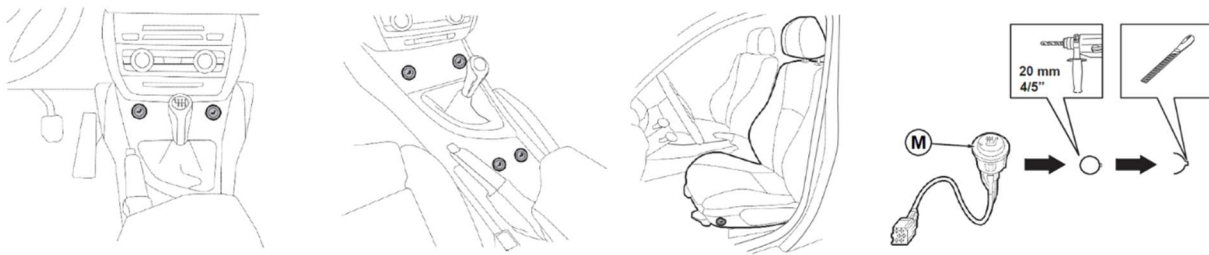
The installation of the retrofit seat in the vehicle is described here. Globally it can be said that the fixing screws (usually 4) have to be removed and the retrofit seat has to be fixed to the vehicle structure by means of adapters or brackets.

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)

The supplied wiring harness contains a red wire (+) that needs to be connected to KEY ON 12 volt power and a black wire (-) that needs to be connected to chassis ground. The system requires a 10 amp circuit. Consult your vehicle's factory wiring diagram or fuse box diagram to find a suitable circuit.

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.

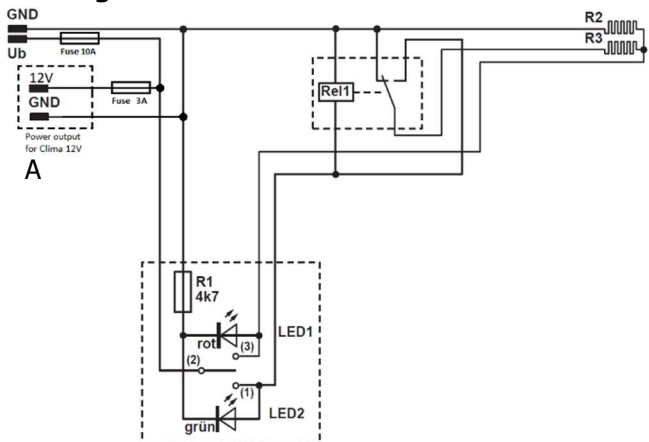


The switch can be positioned as required (cable length).

When installing, observe the required diameter of 20 mm and the position of the recess for locking the switch.

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

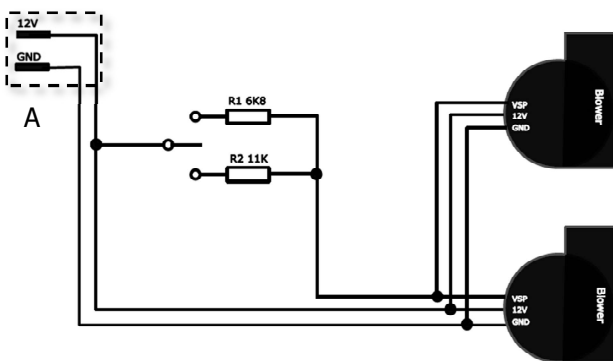
Heating



A: Connection for Klima (if equipped), see A below.
Not used on models with just heat.

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

Klima



A: Klima Connection to main harness, see A above.
Not available on models with just heat.

Fig. 11 Electrical connection (option) - circuit diagram for Klima 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. 12 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. 13 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. 14 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.



Fig. 15 Headrest adjustment

Removing the headrest on Traveller, Touring, Vario and Vario XXL

On the Traveller, Touring, Vario and Vario XXL models, the cotter pin (12) must be twisted 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. 16 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. 17 Folding the backrest (option)

5. Release lever for folding the backrest

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. 18 Seat depth adjustment

2. Handwheel for 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 models.

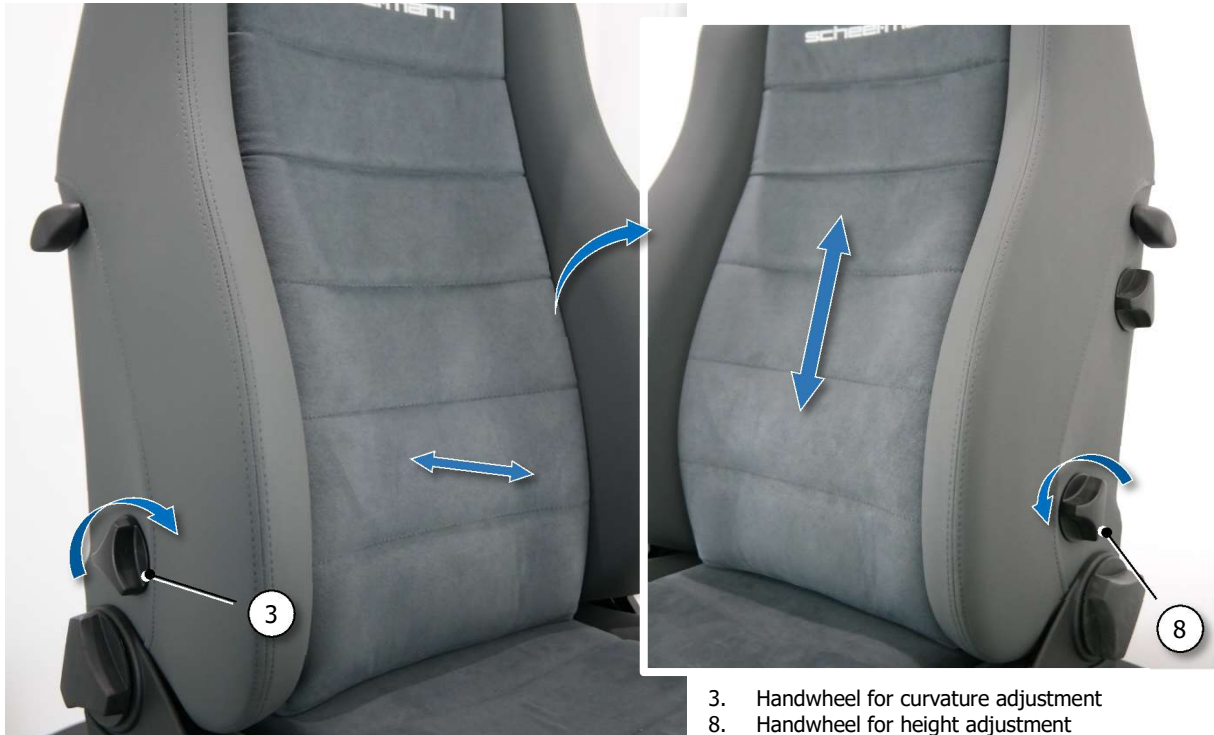


Fig. 19 4-way lumbar support (option)

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. 20 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 wire 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.

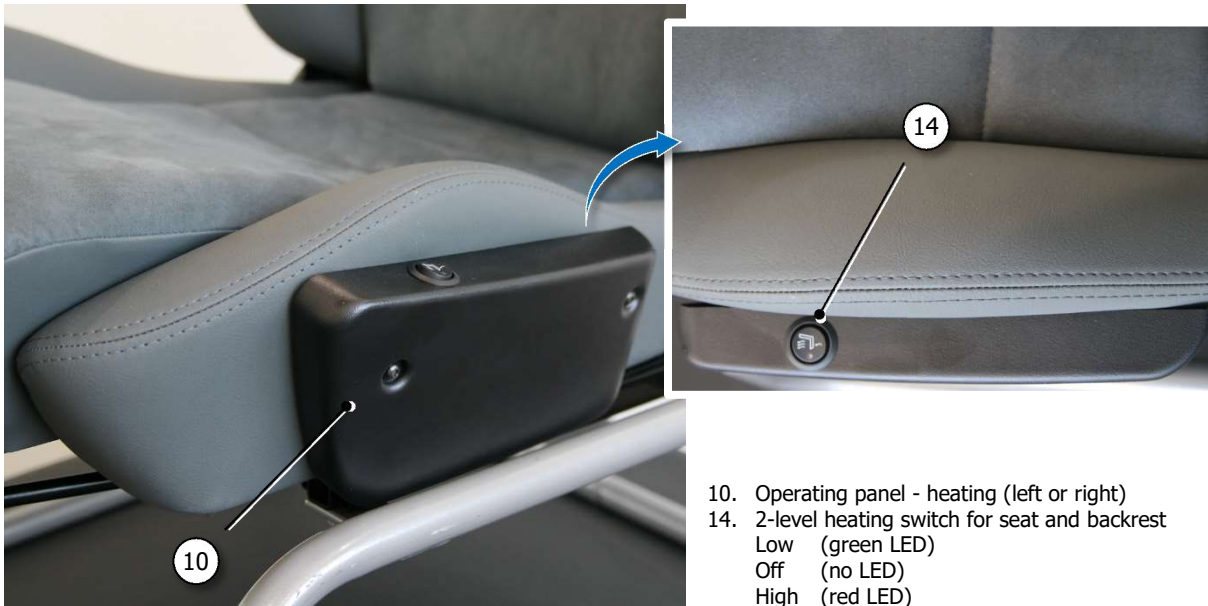
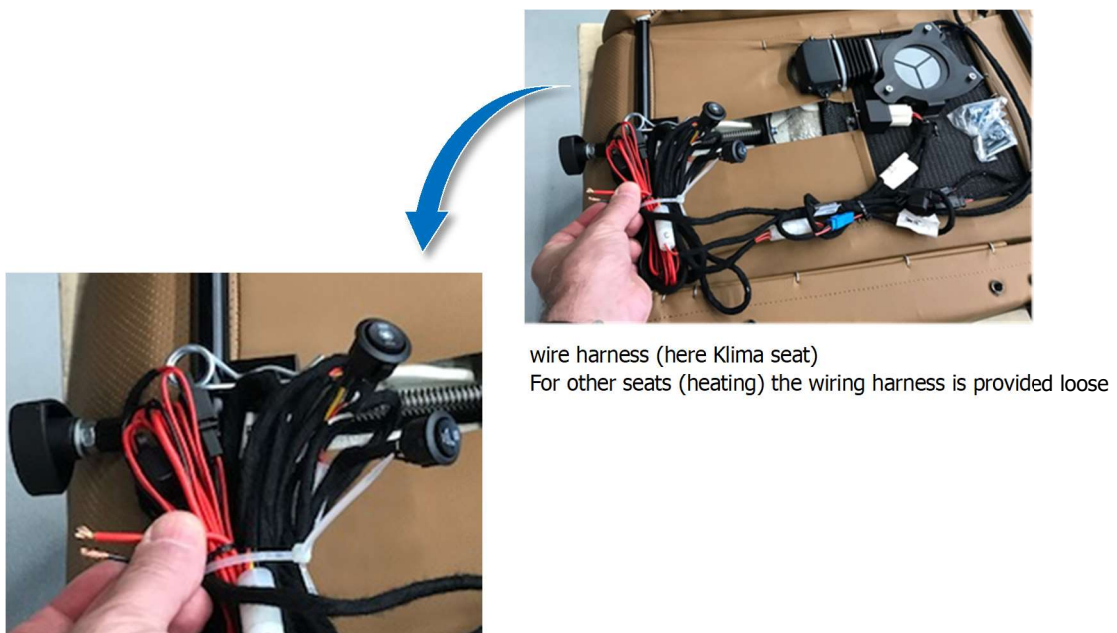


Fig. 21 Heating in seat and back (option)



wire harness (here Klima seat)
For other seats (heating) the wiring harness is provided loose

4.9 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).



Fig. 22 Armrest adjustment (option)

4.10 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. 23 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

