

# MSG 20



**GRAMMER**

**GRAMMER** : Seating comfort for high demands!

You have acquired a **GRAMMER** seat. Congratulations!

Take your seat please, and enjoy the ultimate in seating comfort and safety.

You will be enjoying a driver seat characterized by user-friendliness and a high degree of adaptability.

With your new seat you are not only preserving your health; you are improving your performance and efficiency as well.

Have a good trip, with best wishes from

your **GRAMMER** Team

Imprint

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Amberg, June 1996

\*depending on model



# Operating instructions

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\* if fitted



## General instructions

- The operating instructions should be read in full before use.
- The operating instructions should be kept in the vehicle and always be at hand.
- The driver seat may only be fitted, serviced and repaired by specialist personnel, in accordance with national regulations and the vehicle manufacturer's fitting instructions. In the event of incorrect assembly and/or repair, all warranty and liability claims shall be null and void.

The national fitting regulations can be obtained from **GRAMMER** or from agencies of the company (see dealer directory), or from the vehicle manufacturer.



The functional checks and servicing work should be carried out at least as regularly as vehicle services.

- A correctly functioning and individually adjusted driver seat is essential to your health. Take adequate care of your seat and have it serviced regularly to ensure that it functions correctly.



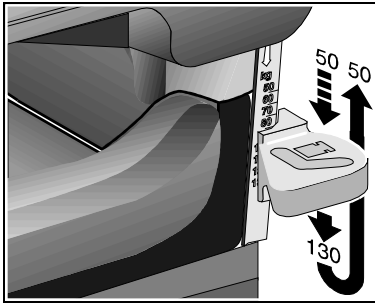
## Safety instructions

- When connecting up a fitted seat heater to the vehicle electrical system, pay attention to the information on the rating plate behind the backrest. **The seat heater must be fused separately:**
  - at 12 V 8 A
  - at 24 V 8 A
  - at 48 V 8 A
  - at 80 V 8 A
- To prevent injury to the driver's back, the seat must be adjusted for the driver's weight **before use** and **before every change of driver** (not for MSG 10).
- To prevent injury, **no objects may be placed within the moving area** of the driver seat.
- To eliminate any risk of accident, the settings must be checked to ensure they are correctly engaged before the vehicle is driven.
- Adjustments must **not** be made **while driving**.
- **If you make any changes to the standard seat** (for example fitting parts which are not original **GRAMMER** parts) it may no longer meet the safety standards to which it is tested. **Functions may be impaired**, threatening your **safety**. For this reason, **any change in design of the seat** must be approved by **GRAMMER**.

## Safety instructions

- Seatbelts can be retrofitted to the driver seat. Seatbelts **may only be fitted on the approval of the vehicle manufacturer**, as they increase the load in the seat mounting area.  
Seatbelts must be fitted in accordance with specific national regulations and guidelines, and must be approved by **GRAMMER**.
- Seatbelts must be fastened **before driving**.  
**The seatbelts must be replaced** after an accident.  
Where seatbelts are fitted to the driver seat, the **seat** and **seat mounting** must be checked **additionally** by specialist personnel after an accident has occurred.
- Fasteners must be **checked regularly for tightness**. If the seat wobbles there may be loose bolts or other faults.  
If the seat does not function correctly (for example the seat suspension), **contact a specialist workshop immediately** to arrange for repairs to be carried out.  
If you fail to do so, your health may be affected and the **risk of accident increased**.
- Seats with a built-in switch (to deactivate component units when leaving the seat or the vehicle) may only be installed **with the prior approval of the vehicle manufacturer**, and may only be operated together with additional safety devices in the vehicle.
- Built-in switches have a maximum permissible current load of 3.5 A at 80 V DC and resistive load only. The vehicle manufacturer must install a consumer circuit-breaker in the vehicle for inductive or capacitive loads. Ask the **vehicle manufacturer** in case of doubt and **prior to installation**.
- Before driving the vehicle, the **function** of any switches fitted in the seat must be checked.  
If malfunctions are detected the vehicle must not be driven.  
– **INCREASED RISK OF ACCIDENT** –
- **Loads must not be placed on seats with a built-in switch**, except for the driver's weight during normal use, as the vehicle may otherwise start to move by itself.  
- **INCREASED RISK OF ACCIDENT** -
- **GRAMMER** can provide no guarantee for damage resulting from incorrect assembly, use or repair of the driver seats.

## Seat functions and operation



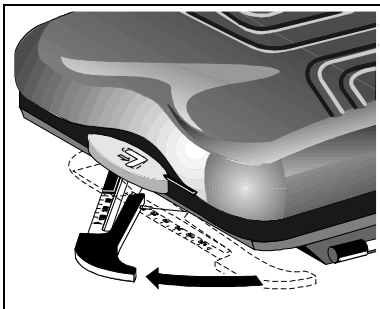
### Weight adjustment \* (not for MSG 10)

The seat is adjusted for the driver's weight with the seat empty. The adjustment is made by pressing the actuator lever (arrow) **down**, from the upper to the lower position.

The driver weight setting is shown by the position of the lever on the scale.

Pressing the actuator lever beyond the furthest notch until it stops will return the setting to 50 kg.

☞ To prevent damage to the health, the setting for the driver's weight must be checked and adjusted as necessary before the vehicle is driven.



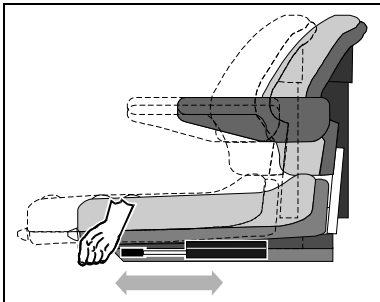
### Weight adjustment \* (not for MSG 10)

The seat is adjusted for the driver's weight with the seat empty. The adjustment is made by pulling out the actuator lever (arrow).

To read off the current setting, pull the actuator lever out until there is a slight resistance.

Pulling the actuator lever out to the endstop will return the setting to 50 kg.

☞ To prevent damage to the health, the setting for the driver's weight must be checked and adjusted as necessary before the vehicle is driven.



### Fore/aft adjustment

The fore/aft adjustment is released by lifting the locking lever (arrow).

☞ The locking lever must latch into the desired position. It should not be possible to move the driver seat into another position when it is locked.

\* if fitted

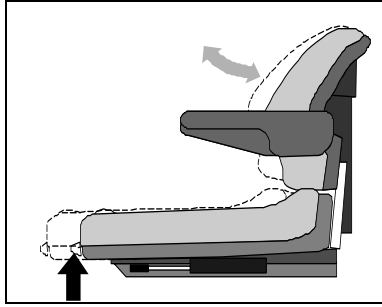
## Seat functions and operation

### Backrest adjustment

The backrest is adjusted using the locking lever (arrow).

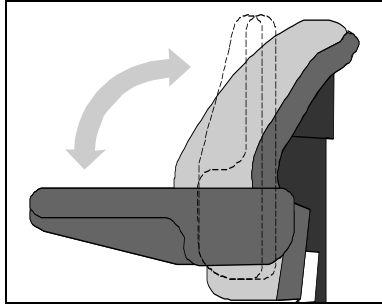
☞ The locking lever must latch into the desired position. It should not be possible to move the backrest into another position when it is locked.

Adjusting the backrest angle will also alter the fore/aft setting for the seat cushion at the same time.



### Armrests\* (optional extra)

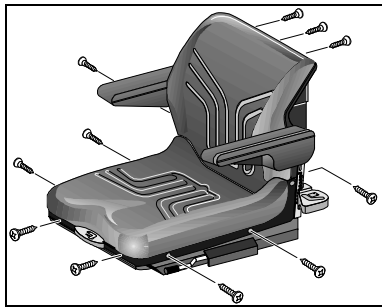
The armrest can be folded up if required.



### Removal and installation of upholstery

To remove the upholstery, undo the screws on the seat and backrest and take out the seat cushion.

The upholstery is refitted in the same way in reverse order.



\* if fitted

## Maintenance



Dirt can impair the function of the seat, so make sure you keep your seat clean!

During cleaning, the upholstery should not be soaked through.

Use a standard commercially available upholstery or plastics cleaning agent. Test first for compatibility on a small, concealed area.