

# ASSEMBLY AND INSTRUCTION MANUAL

## MODEL 2301 CHARLES

© 2018 KURT BEIER & KATI QUINGER



Functional chair with armrests



360° rotary function



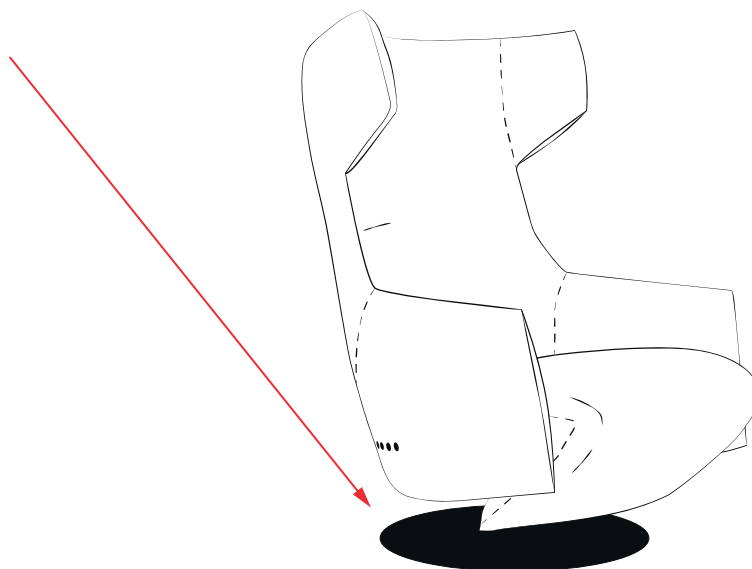
Cushion



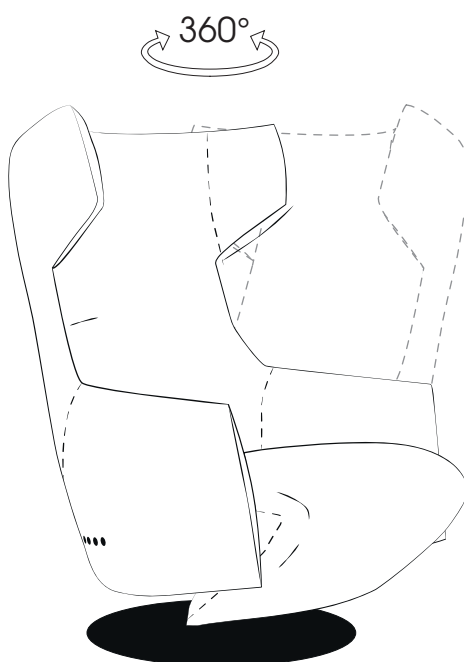
Simple handling  
by sensor buttons

## Attention! Safety note:

The base plate is plugged into a conical turning spindle.  
For transportation it is absolutely necessary to lift up the  
chair at the base plate.



## 360° rotary function:

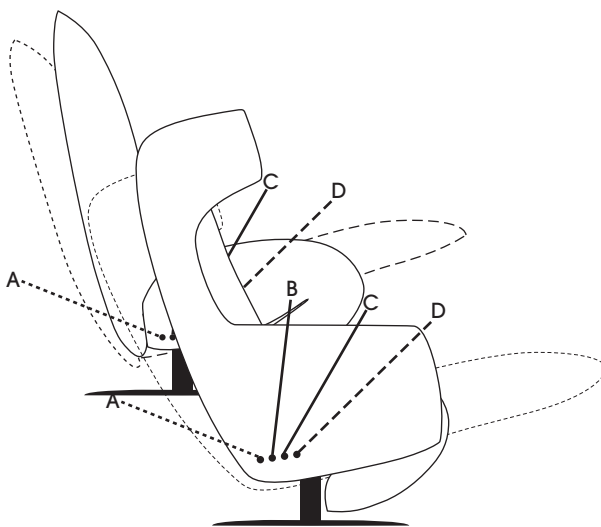


## Functions:

### Sitting and lying functions:

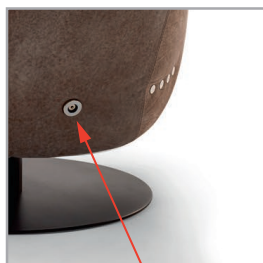
The individual sitting and lying functions are controlled via the sideways placed capacitive sensor buttons.

- > A = Back moves backwards
- > B = Back moves upwards
- > C = Footrest moves downwards
- > D = Footrest moves upwards



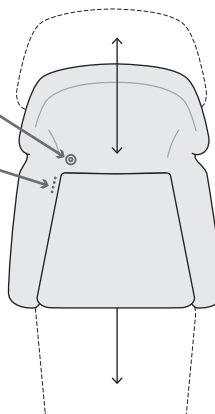
### Attention!

The sensor buttons and charging socket are always mounted on the left.  
(Direction decisive is always standing in front of the furniture).

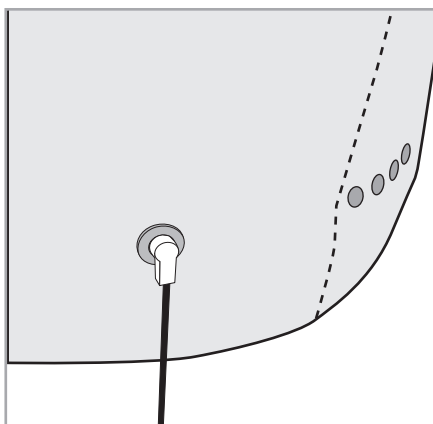
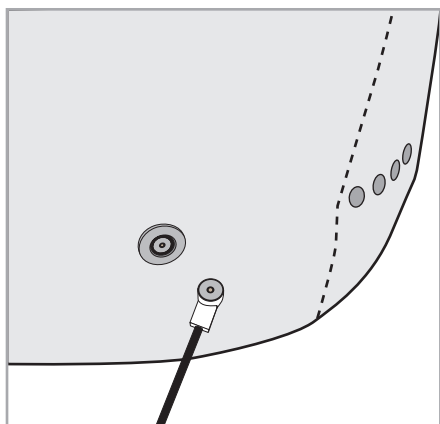


Charging socket, rear left  
(Front view of the furniture)

Sensor buttons socket, rear left  
(Front view of the furniture)



**Charging socket:**  
**Warning of magnetic field.**



## Technical data – for elements with motor-driven seat adjustment

### Electrical connection

To be connected to common household alternating current (AC) with an input voltage of up to 240 V. To ensure a non-hazardous operation, the alternating current from the socket is converted in „low-voltage current“ (direct current, DC) by means of an integrated rectifier and an output voltage of 24 V is output. The main adapter respectively the charging unit also features a protective circuit which prevents malfunctions due to surge voltages and damages to the unit.

Note: The warranty claim will be invalidated if the device is connected incorrectly. Please also pay attention to a proper routing of the mains cable. The drive system is designed for alternating voltage.



### Safety notes

The construction of the piece of furniture as well as the used materials ensure that it may be used without causing risks to the user when used as intended and in compliance with the present operating instructions.

All service, maintenance and repair operations shall only be carried out and documented by authorized persons. If it is necessary to disassemble individual safety devices during e.g. service or repair operations, then it is required to perform the re-establishment and examination of the effectiveness of all safety devices immediately upon completion of the operations.

## Technical data – for all elements with seat adjustment

### Motors

[www.limoss.de](http://www.limoss.de)

Device type	MD 125
Mains connection (VAC)	100 - 240 V AC
Motor voltage	18 - 35 V DC
Protection type	IP 20
Continuous operation / pause cycles	2 min. / 18 min.

Caution: It is prohibited to put safety devices and/or guards out of operation respectively to remove them! The motor cover must not be removed! The piece of furniture is not suitable for operation in wet rooms!



### Accumulator

[www.limoss.de](http://www.limoss.de)

Device type	MC 160
Accumulator capacity	approx. 50 cycles / ø 21 days
Charging of the accumulator	by means of separate charging adapter
Life cycle	80% after 300 charging cycles (depending on the use and environment)

Use accumulator only in dry rooms!

Do not dispose of the accumulator in the domestic waste!



## Technical data – for all elements with motorised adjustment

Notes: Before first operation, please charge the accumulator completely (8 hours). The charging and adjusting is possible at the same time. Recharge the accumulator after 3 months at the latest because otherwise the capacity will suffer. As soon as the critical accumulator capacity is reached, an acoustic alarm signal will sound when the function is activated. Immediately charge the accumulator.



The optimal performance of the accumulator is only ensured at normal room temperature (20° to 30° C).

Accumulators, batteries, electric motors, manual switches etc. belong to the wear and tear parts of a model. They are subject to a continuous loss of performance that differs depending on the intensity of the use (or application respectively purpose). Their lifetime is therefore limited by their very nature. This is part of the normal wear and tear of the parts and does not constitute any valid cause for complaint. If, however, a complaint is occurs within the first six months after purchase, it is assumed that a material defect existed already at the beginning. In such cases, we will replace the respective wear and/or tear part.

For wear and tear parts, we herewith provide all pieces of information, among other things regarding charging, connection, operation or storage in order to ensure a proper use. Please understand that failure to follow the instructions and incorrect handling will make claims under warranty null and void for those parts.

**Bullfrog**  
Marketing & Design GmbH

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declares for the following programme:

2301 Charles, types with motor-driven adjustment

the compliance and the equivalent with the EC guidelines:

EC machinery directive	2006/42/EG
EC low-voltage directive	2006/95/EG
other used standards	EN 60335-1 EN 55014-1 EN 55014-2 Kat II EN 61000-3-2/-3-3

Authorized representative of documents: Jan Beier  
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It is certified herewith, that the above-mentioned products correspond to the mentioned EC guidelines

Michelau, June 2023



Jan Beier, director of Bullfrog Marketing & Design GmbH