MEYRA®

WHEELCHAIRS AND REHABILITATION EQUIPMENT

ELECTRONIC WHEELCHAIR

OPTIMUS, Model 1.622/2.622
SPRINT, Model 1.592
EURO-SPRINT, Model 1.593
SPRINTI, Model 1.592–603

OPTIMUS, Model 1.622/2.622

SPRINT, Model 1.592

EURO-SPRINT, Model 1.593

SPRINTI, Model 1.592–603

OPERATING MANUAL

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ENGLISH

INTRODUCTION

The **MEYRA electronic wheelchairs, SPRINT, EURO-SPRINT, SPRINTI and OPTIMUS** fulfil your wish for mobility and more independence through the proven MEYRA technology on which their new style is based. Benefit from the design advantages of your wheelchair both indoors (e.g. home, working place) and outdoors.

Before you make your first drive, read and observe the contents of this operation manual and the 'Safety information for the electronic wheelchair' brochure'.
Before children make their first drive, they should read this operating manual and the 'Safety information for the electronic wheelchair' brochure under the guidance of a parent or a responsible person and thereafter observe the contents.

RECEIPT

Check the vehicle for possible transport damage as soon as you receive it, preferably in the presence of the carrier.
In the case of transport damage immediately inform your MEYRA authorised dealer or arrange the following:

a) Completion of a DAMAGE REPORT - the carrier is obliged to do this.
b) Preparation of a DECLARATION OF ASSIGNMENT. You assign all claims arising from the damage to the supplier.
c) Return of the FREIGHT BILL, the DAMAGE REPORT and the DECLARATION OF ASSIGNMENT to MEYRA.

We are unable to accept responsibility for damage when this advice is ignored or damage is reported after acceptance of the goods.

ASSEMBLY

The specialist workshop delivers your wheelchair ready-to-use and adapted to your personal needs.

SPECIFICATIONS/ USABILITY

The electronic wheelchairs are suitable for both indoor and outdoor driving. The SPRINT models have only conditional suitability for extreme inclinations (drive downhill only with lowest pre-selected top speed)!
Observe the contents of the 'Safety information' brochure!

The wheelchair serves exclusively for the conveyance of a person on the seat with fitted armrests, legrests and not as a pulling vehicle, transporter, or similar.

Depending on the adjustment of the legrest length, the max. obstacle heights you can overcome are:
Sprint 1592, max. 60 mm
Euro-Sprint 1593, max. 60 mm
Sprinti 1592-603, max. 50 mm
Optimus 1622, max 100 mm

LEGAL REQUIREMENTS

Comply with the applicable laws and traffic regulations when driving on public roads and never drive without the armrests!
A **driving licence is generally not required** for driving a wheelchair.
A valid **liability insurance** is only **mandatory** (in Germany) for wheelchairs with speeds **exceeding 6 km/h** but is still recommended.
The insurance sign must be fixed to the rear of the vehicle. Securing holes are normally already available.
In addition to a liability insurance, wheelchairs with speeds exceeding 6 km/h also require (in Germany) vehicle approval through the TÜV (Safety Standards Authority).
The necessary appraisal report for vehicle approval will be supplied to you with the vehicle. **The application for the vehicle approval is dependent on the respective vehicle registration centre.**
You usually only need to post the appraisal report and application to the vehicle registration centre to obtain the vehicle approval for your wheelchair. You will then be sent the stamped vehicle approval. You must always have the **vehicle approval with you when driving** on public roads.

OVERVIEW

The models illustrated here are standard versions. Deviations from the standard version are described separately in this operating manual.

SPRINT MODEL 1.592

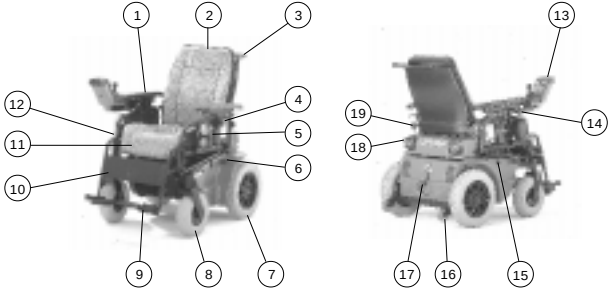


Fig. 1

OPTIMUS MODEL 1.622/ 2.622

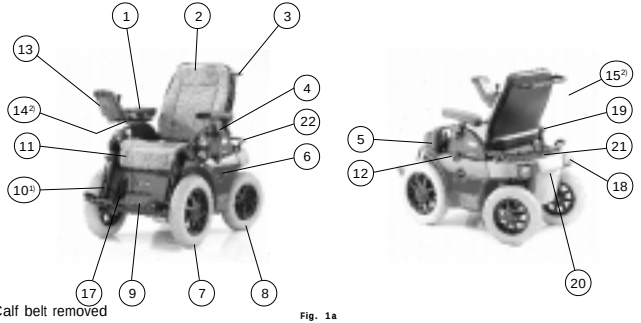


Fig. 1a

1) Calf belt removed
2.) As for Sprint model 1.592

[1] Armrest with arm support, right
[2] Backrest
[3] Push bar
[4] Height adjustment, armrest
[5] Headlight, indicator
[6] Lock, seat unit
[7] Drive wheel
[8] Steering wheel
[9] Legrest / foot plate
[10] Calf belt
[11] Seat
[12] Lock, armrest
[13] Joystick box
[14] Longitudinal adjustment, joystick box
[15] Brake lever
[16] Transport securing point with support castors
[17] Drive selection lever, Drive / Push mode
[18] Indicator / rear light
[19] Clamping screw, backrest
[20] Position for insurance sign
[21] Steering selection lever Drive / Push mode
[22] Luggage rack with railing

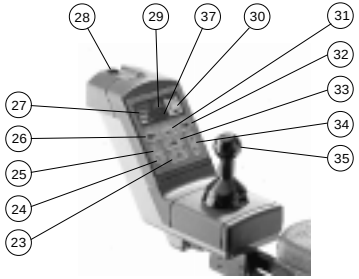
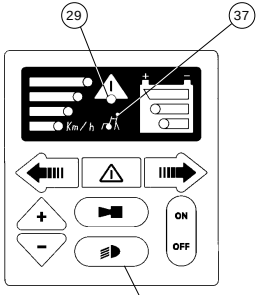
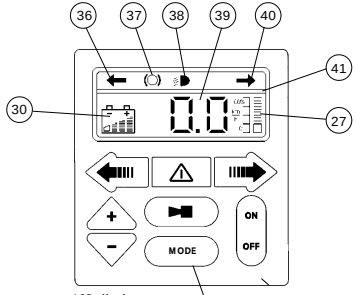


Fig. 2





[23] Headlight key (LED joystick box only)
[24] Minus key - reduces the setting values
[25] Plus key - increases the setting values
[26] Left indicator key
[27] Display for selectable max. top speed (and operating control for LED joystick box)
[28] Drive key / charging socket
[29] LED error indication
[30] Battery symbol (charge state)
[31] Hazard warning flasher key
[32] Right indicator key
[33] Horn key
[34] ON / OFF key
[35] Drive and steering joystick
[36] Left indicator warning indication
[37] Drive mode lock-out warning indication
[38] Headlight warning indication
[39] LCD display
[40] Right indicator warning indication
[41] LCD signalling bar for reporting power electronics errors *
[42] Function selection key (LCD joystick boxes only)

* Operation errors are indicated in an LCD joystick box by an error code in the display!

OVERVIEW

The models illustrated here are standard versions. Deviations from the standard version are described separately in this operating manual.

SPRINT MODEL 1.592-603

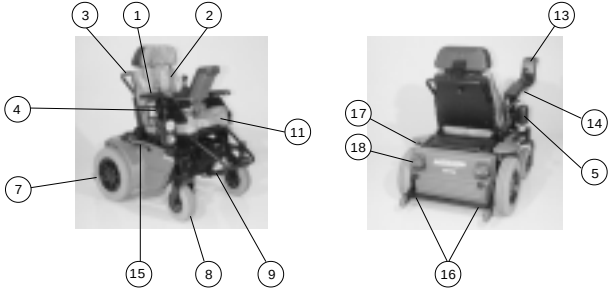


Fig. 1

EURO-SPRINT MODEL 1.593

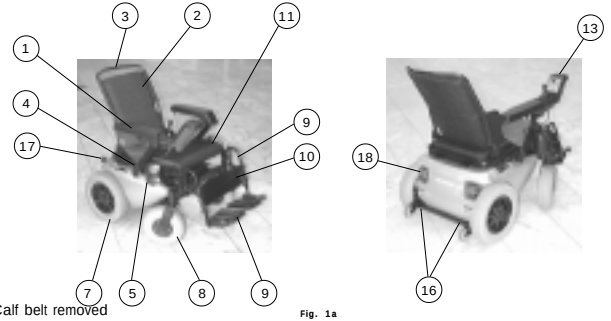


Fig. 1a

1) Calf belt removed
2.) see Sprint model 1.592

[1] Armrest with arm support, right
[2] Backrest
[3] Push bar
[4] Height adjustment, armrest
[5] Headlight, indicator
[6] Lock, seat unit
[7] Drive wheel
[8] Steering wheel
[9] Legrest / foot plate
[10] Calf belt
[11] Seat
[12] Lock, side element
[13] Joystick box
[14] Longitudinal adjustment, joystick box
[15] Brake lever
[16] Transport securing point with support rollers
[17] Drive selection lever, Drive / Push mode
[18] Indicator / rear light
[19] Clamping screw, backrest
[20] Position for insurance sign
[21] Steering selection lever Drive / Push mode
[22] Luggage platform with railing

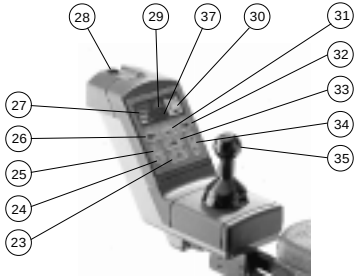
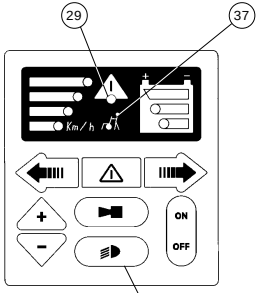
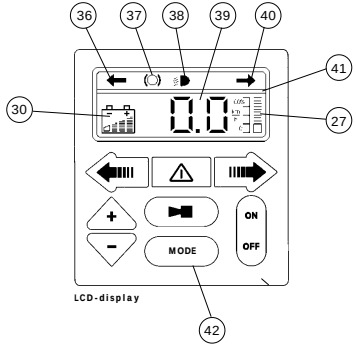


Fig. 2



LED-display (not for Model Sprinti 1.592-603)



LCD-display

[23] Headlight key (LED joystick box only)
[24] Minus key - reduces the setting values
[25] Plus key - increases the setting values
[26] Left indicator key
[27] Display for selectable max. top speed (and operating control for LED joystick box)
[28] Drive key / charging socket
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[38] Headlight warning indication
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[40] Right indicator warning indication
[41] LCD signalling bar for reporting power electronics errors *
[42] Function selection key (LCD joystick boxes only)

* Operation errors are indicated in an LCD joystick box by an error code in the display!

DRIVING BEHAVIOUR

Drive particularly carefully during your first few runs!
Therefore, set the top speed pre-selection to the lowest level. **Press the minus key [24] on the joystick box** to do this (see 'Joystick box - Checks before drive start' in manual).
Observe the contents of the 'Safety information' brochure!

You determine the **speed and travel direction** yourself when driving through the movement of the joystick [35] and the maximum speed setting of your wheelchair.

Sprint, Euro-Sprint, Sprinti:
When reversing with the joystick leaning to the left, your wheelchair makes a right-turn.
A reversal of the steering direction is, with certain manoeuvrability restrictions, possible by reprogramming.

Optimus 1.622 / 2.622:
Braking with the joystick is not possible when the selection lever [17] is set to the **Push mode**! **Use the drum brake** in the push mode! **The automatically working magnetic brakes are deactivated. Danger of accident!**

Braking of the wheelchair
The wheelchair stops when you release the joystick. Observe the **braking distance** for a timely halt of the wheelchair.
Depending on the nature of the driving surface, vehicle type and speed, the shortest **braking distance** is:
for SPRINT model 1.592
approx. **1 m for 6 km/h** version and min. **1.5 m for 10 km/h** version.

for OPTIMUS model 1.622 / 2.622
approx. **1.2m for 6 km/h** version and min. **1.8 m for 10 km/h** version.
Therefore, brake in good time when driving towards people or obstacles.

Attention:
Avoid jerky driving changes on inclines, cross-slopes and near obstacles.

DRIVING BEHAVIOUR

Attention:
Especially avoid tight turning and jerky braking on inclines with critically set driving parameters. - Danger of overturning!

BRAKES
In event of **reduced brake efficiency** or **one-sided braking action,** arrange **immediate maintenance** through your authorised dealer.
Observe instructions in the 'Safety information' brochure!

The **motor brake** works electronically as a driving mode brake and brings the wheelchair to a gentle and jerk-free stop.

The **magnetic safety brakes** serve only as standstill brakes. They simultaneously guarantee an automatic stopping of the wheelchair when electrical power is lost.

In event of reduced effectiveness of the magnetic safety brake, supplementary use of the drum brake should be made. Arrange maintenance of the brakes as soon as possible!

The **parking brake** (drum brake) is independent of the tyre pressure and acts simultaneously on both drive wheels when the lever (Fig. 3) is operated.
Its purpose is to prevent unintentional movement of your wheelchair
- in push mode, or
- failure of the automatic braking system.

BRAKES
PARKING BRAKE

Attention!
The EURO-SPRINT model 1.593 has no drum brake.
The electromagnetic brake switches from drive mode to push mode when the brake lever on the side of the wheelchair is operated!
The electromagnetic brake is immediately fully effective when the brake lever is returned to the drive mode.
- A controlled deceleration is not possible!

Maintenance work, modifications, settings and adjustments on the wheelchair **should only be carried out with engaged parking brake** and **removed drive key!**
- Danger of accident through unintentional wheelchair movement.

Engaging the drum brake
Swivel parking brake lever [15] forward to the end-stop (Fig. 4).
- LED joystick box = Push mode symbol warning indication [37] goes on.
- LCD joystick box = Drive mode lock-out warning indication [37] appears in the display.

Releasing the drum brake
Swivel parking brake lever rearwards to end-stop (Fig. 3).
- The hazard warning indication [37] goes out.

For safety reasons, use **mobile telephones** or other radio devices **only with stationary wheelchair**.


Fig. 3


Fig. 4

PREPARING THE WHEELCHAIR FOR DRIVING

1. Insert the battery fuse (main fuse)

Flat fuse:
The flat main power fuse is located in the fuse holder under the seat (Fig. 5).

2. Engage the drive
Set the drive / push mode selection lever [17] to the drive mode position. Symbol [37] of the joystick box will go out.

3. Position the joystick box
The joystick box should be positioned, so that you can comfortably and safely control your wheelchair.

Length adjustment:
Slacken the clamping screw with the handwheel (A, Fig. 6) to adjust.

Height adjustment:
The height of the joystick box can be adjusted with the height-adjustable armrest (see 'Armrests ' section) and with the screws (B) which secure the joystick box.

PREPARING THE WHEELCHAIR FOR DRIVING

4. Insert the drive key
Insert the drive key [28] in the drive key socket. The joystick box is deactivated when the drive key is removed. This secures your wheelchair against unauthorised use!
- Do not insert any object other than the drive key into the drive key socket. **Danger of short-circuit!**
- Always remove the drive key after use. - Battery discharge e.g. through leakage currents in the electronic circuits may result in **battery damage**!
- The wheelchair continues to be driveable when the key is removed during driving.
The wheelchair will switch off automatically when, after removal of the drive key, the joystick remains in the zero (middle) position for more than 2 seconds.

PREPARING THE WHEELCHAIR FOR DRIVING

5. Switch on the joystick box
Press the ON / OFF key [34] on the key field of the joystick box (Fig. 7).
- The LED of the pre-selected speed [27] will go on.
- LCD joystick boxes will display the LCD indication [39].
(See **Joystick box)**

Only transfer to and from the wheelchair **when the wheelchair is switched off and the parking brake engaged!**
Unintentional contact with the joystick [35] can cause uncontrolled movement of the wheelchair. - **Danger of accident!**

Do not move the joystick until the self-test of the electronics has ended!
- The signalling bar [41], respectively, the error indication [29] stops blinking after switch-on.

6. Release the parking brake
Swivel the brake lever [15] rearwards to the end-stop (Fig. 3).
The warning indication [37] goes out.
Before drive start **check**:
- the **battery charge** level and
- the pre-selected **top speed setting.**
(see **'checks before drive start'** and **'joystick box'** sections!).

Fig. 5

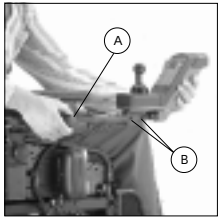


Fig. 6

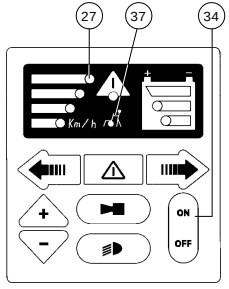


Fig. 7

CHECKS BEFORE DRIVE START
A self-test (approx. 2 sec.) is carried out immediately after the joystick box has been switched on (by pressing the ON / OFF key).
The warning indication [29], respectively, the signalling bar [41] blinks.

BATTERY CHARGE STATE
After switch-on, the battery indication (30) (Fig. 8) shows the battery charge state.

LED joystick box

Battery indication:
- **no LED on**, ready to drive, batteries charged.
- **permanent yellow light**, middle to low battery capacity (working range).
- **permanent yellow and red light**, low to no battery capacity.
- **recharge** batteries.
- **permanent red light,** batteries discharged, voltage dropped to 21V.
- **Charge batteries a.s.a.p.!**
- **blinking red light,** batteries fully discharged, voltage dropped to less than 20.5 V. **Charge batteries immediately.**

LCD joystick box
After the joystick box has been switched on (press ON / OFF key), the battery symbol (30) on the LCD display (Fig. 9) shows the battery charge state.

The displayed value is dependent on ambient temperature, the age of the batteries and their load type and should, therefore, be **treated with reservation.** If doubt exists, the **daily kilometre indication should also be considered** for a better estimation of the remaining capacity.
You can derive a very useable estimation of the remaining driving capacity [km] by comparing the distance you have already driven (according to the daily kilometre indication) with the average sum of driven distances [km] you previously covered before the symbol for 5% battery capacity started blinking.
A check with an acid siphon will provide a more accurate indication!

Warning indication [29] blinks when the hazard warning indication is on and in the event of error (see para. 'Error correction' , of **'Maintenance'** section)

Symbol for 'push mode' [37] is lit when wheelchair is set to push mode and the drum brake [15] is engaged.

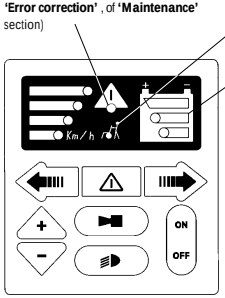


Fig. 8

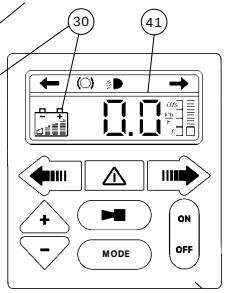


Fig. 9

Battery symbols and meaning of LCD indications.

Fully charged
(= 30% of battery capacity available)
- maximum driving distance achievable under optimum conditions.

Partly discharged
(approx. 20% battery capacity available)
- recharge batteries for longer driving distances

Almost discharged
(approx. 10% battery capacity available)
- only short driving distances possible. **Recharge batteries!**

Discharged
(approx. 5% battery capacity available)
Recharge batteries a.s.a.p.!

Fully discharged
(battery symbol blinks; short horn signals)
- error message, E54 (see p.34)
Recharge batteries immediately!

Otherwise:
Wheelchair will come to unintented standstill,
(error message E55)
Further travel not possible!

CHECKS BEFORE DRIVE START

PRE-SELECT TOP SPEED
The pre-selectable top speed can be set with the ▲ and ▽ keys after the joystick box has been switched on (by pressing the ON / OFF key).

The **speed must** be **appropriately reduced and adapted** to the incline **during downhill driving**. However, **never exceed** the permitted top speed (**6 or 10 km/h** depending on model). **Danger of accident!**

Maximum speed correctly pre-selected? Danger of accident through inappropriate selection of the **maximum speed**!
Select a lower top speed for driving situations in which you feel insecure (e.g. driving downhill, in confined spaces or on ramps, etc.).

LED models (fig 10)
The top speed has a default setting of 100% after the joystick box has been switched ON (by pressing the ON / OFF key, Fig. 10).

The top speed can be set to one of 4 levels (each 25%) with the ▲ and ▽ keys (also during travel).

The lit LED indicates the selected top speed.

Level: (pre-selection indication)
4 maximum top speed
3 almost max. top speed
2 top speed reduced to one-half
1 greatly reduced top speed

Situation	Wrong pre-selection	Result
1st example: Driving indoors. Required setting: lowest pre-selectable top speed.	High top speed selected.	Small shifts of the drive and steering joystick result in rapid acceleration. User loses control in cramped indoor areas. **Danger of accident!**
2nd example: Driving across road crossing. Required setting: High top speed pre-selection.	Low top speed selected.	Road is not crossed sufficiently quickly. **Danger of accident** from approaching vehicles!

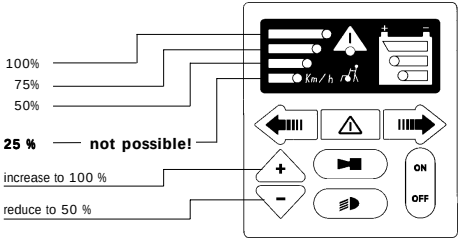


Fig. 10

CHECKS BEFORE DRIVE START

PRE-SELECT TOP SPEED

LCD version (Fig. 11)

Level	if	then
4		maximum top speed attainable (100%)
3		maximum top speed almost attainable (75%)
2		one-half of top speed attainable (50%)
1		greatly reduced top speed attainable

The pre-selected top speed is stored when the joystick box is switched off (by pressing the ON / OFF key, Fig.11) and used as the default value when the next switch-on occurs.

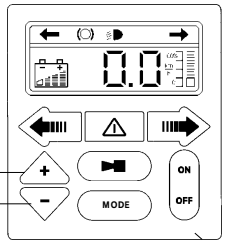


Fig. 11

JOYSTICK BOX

THE LCD DISPLAY

(Liquid Crystal Display [39])

Warning indications (Fig. 11):	Function :
	Blinks when left indicator selected
	Blinks when in push mode (drive and / or steering disengaged) and when parking brake applied.
	Appears when headlight is switched on.
	Blinks when right indicator is selected.
	Shows the max. top speed setting (see '**Checks before drive start**' section).
	Shows the battery charge state (see '**Checks before drive start**' section).
	Blinks when hazard warning indication is selected.

JOYSTICK BOX

The joystick box with LCD display (Fig. 11, necessary for wheelchairs with adjustment or special control options, includes a daily kilometre counter, a speed indication and a 3-digit LCD combination lock acting as a programmable anti-theft device (see relevant section).

DRIVE/STEERING JOYSTICK

You determine the travel direction and driving speed yourself when driving through the movement of the joystick [35] (Fig. 12).

Do not move the joystick out of the zero position before the self-test has ended (when the warning lamp [29], respectively, the signalling bar [41] no longer blinks). If blinking continues, see para. 'Error correction', in the 'Maintenance' section.

Forward travel

Move the joystick forward appropriate to the desired driving speed.
The speed at which you move the joystick forward and the maximum top speed setting will determine how slowly or quickly the wheelchair will start to travel.

Reverse travel

Move the joystick to the rear appropriate to the desired driving speed.

Deceleration to standstill

Move the joystick back to the starting point appropriate to the desired deceleration.
The wheelchair brakes within the shortest distance.
For stopping the wheelchair you should consider a **braking distance** of
(SPRINT 1.592)
approx. 1.0 metres at 6km/h and **approx. 1.5 metres at 10km/h!**

(OPTIMUS 1.622/2.622)
approx. 1.2 metres at 6 km/h and
approx. 1.8 metres at 10 km/h!

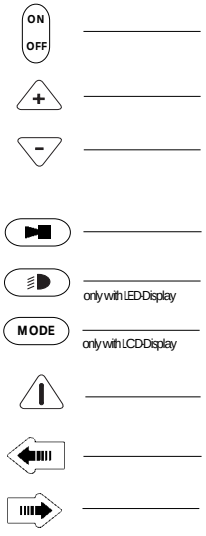
These guide values vary depending on the tyre condition, the total weight of the wheelchair and the nature of the driving surface.

Left/right turning

Move joystick left or right appropriate to the desired turning radius.

The pressing points for triggering the function of the ▽, and △ ON / OFF keys are directly below the symbol. The other keys have their pressing points to the left and right of the symbol.

Fig. 12



KEYBOARD

Arrangement of pressing points

Function

ON / OFF [34]
Switches the driving mode of the wheelchair on or off.

Plus key [25]
Increases the top speed to 100% in 25% steps.

Minus key [24]
Reduces the top speed by 25% per key press to 50% for LED joystick box and 25% for LCD joystick box.

Horn [33]
Horn signal

Headlight [23]
Switches the headlight on or off.

Function select key [42]
Calls up the functions in the LCD display.
Hazard warning key [31]
Switches the hazard warning indicators on or off.
Left indicator [26]
Switches the left indicator on or off.

JOYSTICK BOX

SETTING OPTIONS

The speed indication appears in the LCD display after the joystick box has been switched on. - You can call up the next function in the **function display** by pressing the **'MODE' key** [42]. The number of functions you can call up depends on the option level of the wheelchair. **Faults** in the operation of the wheelchair will **result in an error code being displayed** in the function display (see para. **'Error correction',** in the **' Maintenance'** section).

For safety reasons, the setting must be made when the wheelchair is stationary!
Danger of overturning during incline and obstacle travel with inclined sitting position!

0 . Speed

Displays the momentary driving speed

- **Changing** the maximum top speed with the ▲ and ▽ keys is possible **before and while driving**.

1. Light

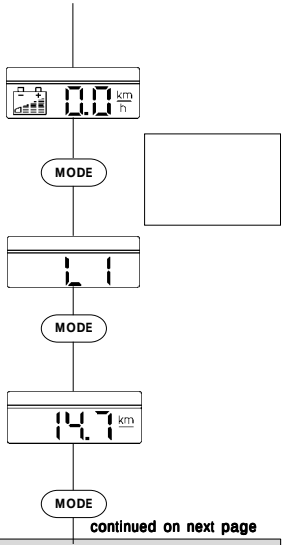
The light can be switched ON / OFF with the ▲ and ▽ keys or by left / right shifting of the joystick.

2. Driven distance of day in km

- **Reset to zero by simultaneously** pressing the ▲ and ▽ keys.

- Maximum top speed can be set by pressing the ▲ or ▽ key.

Switch on Joystick box



continued on next page

Danger of overturning during incline and obstacle overcoming! Adjustments may only be made when the wheelchair is stationary! The speed must be significantly reduced and adapted to the individual situation. Depending on the fitted electrical adjustment options (e.g. code 25, 27, 86, 118), there may be a significant negative change in the driving behaviour of the wheelchair that is dependent on the degree of adjustment. Depending on the fitted adjustment options, the top speed will be automatically reduced when driving with settings deviating from the basic sitting position.

JOYSTICK BOX
SETTING OPTIONS

3. Backrest adjustment (code 25, code 567)

- Joystick to the right, backrest moves backward (max. 45°)
- Joystick to the left, backrest moves to start position.

4. Seat tilt adjustment (code 118), no sitting up assistance!

- Joystick to the right, seat inclines to rear (max. 15°).
- Joystick to the left, seat moves back to start position.

5 Legrest angle, right (code 86)

- Joystick to the right, legrest swivels upwards (max. 60°).
- Joystick to the left, legrest swivels downwards.

6. Legrest angle, left (code 86)

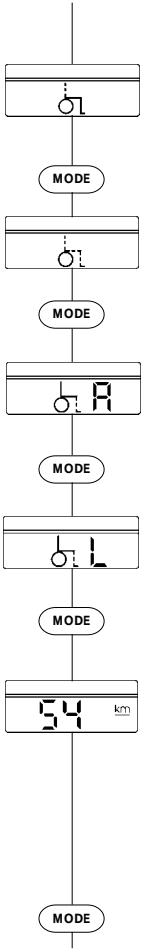
- Joystick to the right, legrest swivels upwards (max. 60°).
- Joystick to the left, legrest swivels downwards.

7. Total driven distance

- Total driven distance (km) = indicated figure x 10
  Example:
  LCD display indication = 54 km
  Total driven distance: between 540 km and 549 km.

- Highest indicated value of 999 equates to a total driven distance between 9990 and 9999 km.
- The total driven distance value remains stored after power interruption and cannot be deleted.

Danger of overturning during incline and obstacle travel! Adjustments may only be made when the wheelchair is stationary! The speed must be significantly reduced and adapted to the individual situation. Depending on the fitted electrical adjustment options (e.g. code 25, 27, 86, 118), there may be a significant negative change in the driving behaviour of the wheelchair that is dependent on the degree of adjustment. Depending on the fitted adjustment options, the top speed will be automatically reduced when driving with settings deviating from the basic sitting position.



3 to **6** depending on model and equipment -
Dashed line of wheelchair symbol = line blinks in the LCD display of the joystick box!

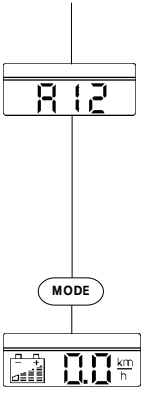
Please turn the page

JOYSTICK BOX SETTING OPTIONS

8. Automatic switch-off
The wheelchair automatically switches off after the pre-selected switch-off time 'A' when no commands have been entered with the joystick box during this time.
- △key, extends the switch-off time.
- ▽key, shortens the switch-off time.
- joystick to the right, extends the switch-off time.
- Joystick to the left, shortens the switch-off time.

Example:
A = Switch-off time
A 12 = 12 minutes
A 30 = 30 minutes
A U = unlimited, no automatic switch-off occurs.
- Ideal, for example, for chin control.

The starting indication has been reached again.
The functions can be selected as often as desired with the MODE key.



0 Speed
Shows the current driving speed.
see page 10

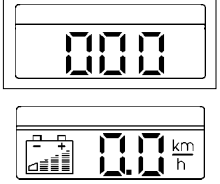
SECURING WITH THE LCD COMBINATION LOCK
- Security against unauthorised use.
- Programming with the personal number of the respective user. - Avoids forgetting of combination because freely selectable.
- The combination lock can be deactivated e.g. in case of alternating users.

Make a note of your personal **combination** and keep this **at any time available**. - Contact your authorised dealer if you have lost the note and / or forgotten the combination.

Combination entry
- Prepare your wheelchair for driving (see **'Preparing the wheelchair for driving'** section)
- Enter your personal ▽ △ combination with the ⬅, and ➡ keys.
- The LCD display will tomatically change to the speed indication after the third correct digit has been entered.

Combination lock deactivation
- The wheelchair is ready to drive and secured. - The LCD display shows the speed indication.
- Press and hold the right indicator key, then press the ON / OFF key. - The wheelchair switches itself off.

Auf der LCD-Anzeige erscheinen drei Nullen:



Combination lock activation
- The wheelchair is ready to drive and secured. - The LCD display shows the speed indication.
- **Press** and hold the **right indicator** key, then press the **ON / OFF key**. - The wheelchair switches itself off.

The switch-off following the entry **causes the new data to be stored**. Your entry will take effect the next time the joystick box is switched on.

Remark:
The speed indication appears in the display [39] after the joystick box has been switched on:

- Your combination lock is deactivated (see **'Combination lock activation'**).
- The combination lock has not yet been programmed. Contact your authorised dealer.

LCD JOYSTICK BOX
LCD BACKLIGHTING
LCD backlighting is available for better readability of the LCD display.
LCD backlighting activation
- The wheelchair is ready to drive and secured.
- The LCD display shows the speed indication.
- **Press** and hold the △ **key**, then press the **ON / OFF key**. - The wheelchair switches itself off.

LCD backlighting deactivation
- The wheelchair is ready to drive and secured.
- The LCD display shows the speed indication.
- **Press** and hold the △ **key**, then press the **ON / OFF key**.
- The wheelchair switches itself off.

POSITIONING AND REMOVAL OF JOYSTICK BOX
Longitudinal adjustment:
Slacken the clamping screw with the handwheel and push / pull the joystick box[13] to the desired position (no further than the marking) (Fig, 13).
Removal:
Slacken the clamping screw with the handwheel and pull the joystick box [13] forward out of its guide.
Height adjustment:
(not for code 12)
The height of the joystick box can be adjusted with the height adjustment of the armrest [1] (see **'Armrests'**).

CONTROL BY ACCOMPANYING PERSON, CODE 851 (relocatable joystick box)
The joystick box is secured to the push bar with a joystick box mounting bracket and can be freely positioned for the accompanying person by means of the clamping screws.

The appropriate armrest for mounting the joystick is required for relocating the joystick box from the push bar position to the front position for control by the wheelchair user.
Further information can be obtained from your authorised dealer.

The switch-off following the entry **causes the new data to be stored**. Your entry will take effect the next time the joystick box is switched on.

SWIVELLING AWAY THE JOYSTICK BOX
(not for Optimus light and Euro-Sprint models).
The joystick control box [13] can be swivelled away to the rear (Fig. 14).
- Nearer driving under table tops or similar (possibly after lowering the armrest).
- Easier transfer .e.g. to another wheelchair.

Procedure:
- Switch off wheelchair and engage parking brake [15]. - This prevents unintentional rolling of the wheelchair (see Parking brake' section).
- Press or pull the joystick box outwards over the retaining notch and then,
- push to the rear (Fig. 14).

Do not reach into the crossbrace when swivelling joystick box forwards.
Danger of squashing!
For easier locking of the joystick box, lift it and push it inwards over the retaining notch.


Fig. 13


Fig 14

LEGREGSTS

The feet must always be on the foot plates when using the wheelchair.
The U-shaped grips of the legrests are only for folding up the seat unit and **not for lifting or moving the wheelchair!**

Information:
The legrests of the children`s wheelchair SPRINTI model 1.592-603 are described separately. See, Special features of SPRINTI, 1.592-603.

Folding the foot plates sideways,
allows an easier transfer from / to the wheelchair.
- Engage parking brake. - This prevents an unintentional rolling of the wheelchair.
- Undo calf belt [10] if present.
- Take both feet off the foot plates.
- Fold foot plates [9] sideways (Fig. 15). (or for OPTIMUS, 1.622 / 2.622)
- Fold foot plates rearwards (Fig. 16). - Danger of squashing!

Swivelling away the legrests,
(only for SPRINT and EURO-SPRINT)
effects a reduced wheelchair length for stowing the wheelchair.
- Engage parking brake. - This prevents an unintentional rolling of the wheelchair.
- Undo calf belt [10] if present.
- Take both feet off the foot plates.
- Fold foot plates [9] sideways (Fig. 15).
- Move locking lever up or down and swivel away legrests [9] (Fig.17).

Swivelled-away legrests are automatically unlocked and can fall off easily. Observe during further handling (e.g. transport). Do not forget to **secure legrests after swivelling back into position** by moving the lever into the locking position!

Removal of the legrests
(only for SPRINT and EURO-SPRINT)
effects a reduced wheelchair length for stowing the wheelchair.
- Engage parking brake. - This prevents an unintentional rolling of the wheelchair.
- Undo calf belt [10] if present.
- Take both feet off the foot plates.
- Fold foot plates [9] (Fg.15).
- Move locking lever upwards or downwards (Fig.17).
- Swivel away legrests [9] slightly and lift upwards to remove (Fig. 18).

After refitting and swivelling back into position **secure legrests** by shifting the locking lever.

Adjusting the legrests length
The legrest length can be adjusted through a non-rotatable telescopic tube.
- Switch off the wheelchair and engage parking brake. - This prevents an unintentional rolling of the wheelchair (see 'Parking brake' section).

SPRINT, 1.592
Tool:
6 mm Allen key
- Slacken clamping screw (Fig. 19).
- Adjust legrest [9] to desired length.

Observe min. insertion depth of 5 cm (marking)

Retighten clamping screw.

Adjusting the legrest length
(only for OPTIMUS, 1.622 / 2.622)
Tools: 1 x 10 mm open-end spanner,
1 x 4 mm Allen key
- Disassemble bolted connection (Fig. 20).
- legrest to desired length.
- Reassemble bolted connection.

Angular adjustment of foot plates
(only for OPTIMUS, 1.622 / 2.622)
Tools: 1 x 10 mm open-end spanner, 1 x 4 mm Allen key
Swivelling up the seat unit to the first position may ease the work.
- Switch off the wheelchair and engage parking brake. - This prevents an unintentional rolling of the wheelchair (see 'Parking brake' section).
- Slacken hex nut (counter nut) (Fig.21).
- Screw in / out adjusting screw to suit needs of the user.
- Tighten hex nut (counter nut).

Adjusting the upper leg length
(only for OPTIMUS, 1.622 / 2.622)
Tool: 1 x 10 mm open-end spanner
Swivelling up the seat unit to the first position may ease the work.
- Switch off the wheelchair and engage parking brake. - This prevents an unintentional rolling of the wheelchair (see 'Parking brake' section).
- Disassemble bolted connections (Fig.22).
- Position legrest appropriate to needs.
- Assemble bolted connections.


Fig. 15


Fig. 16


Fig. 17


Fig. 18


Fig. 19


Fig. 20


Fig. 21


Fig. 22

BACKREST
The ergonomically designed backrest [2] can be removed (e.g. for transport) as shown in Fig. 25 and 26,

Take particular care during incline and obstacle travel when the backrest is in an inclined position! **Increased danger of overturning!**

Observe the instructions in the **'Safety information'** (electronic wheelchairs) brochure, **'Inclinable backrest'** section!

Incline adjustment of standard backrest (code 401/31)
Tool:
2 x 13 mm open-end / ring spanner

Inclines exceeding 8% are only to be driven on with backrest in the upright position!
- Switch off the wheelchair and engage parking brake. - This prevents an unintentional rolling of the wheelchair (see 'Parking brake' section).
- Swivel up the seat unit. - To do this, pull out the locking knobs [6] at the side (Fig. 23), (see Seat section).
- Slacken the inner backrest securing bolts (Fig. 24).
- Position backrest to suit your needs. - Pull / push the backrest with the push bar [3].
- Tighten securing bolts.
- Swivel the seat down. - To do this, pull out the locking knob at the side (see Seat section).

Removing the backrest
- Switch off the wheelchair and engage parking brake. - This prevents an unintentional rolling of the wheelchair (see 'Parking brake' section).
- Remove armrests [1]
- Screw out completely or sufficiently the clamping screws at the sides using the handwheel [19] (Fig.25).
- Pull the backrest upwards out of the guide tubes (Fig.26).
- Slightly screw in the clamping screws so as not to lose them.

Fitting the backrest
- Switch off the wheelchair and engage parking brake. - This prevents an unintentional rolling of the wheelchair.
- Slide the backrest tubes from above into the guide tubes (Fig.26).
- Tighten the clamping screws at the sides using the handwheel (Fig.25).
- Fit the armrests.

BACKREST CODE 25 AND 26

Always **place the inclinable backrest in** the **vertical position** for overcoming obstacles and inclines (over 8%). **Danger of overturning!**

Code 25
The backrest is electrically infinitely inclinable to the rear (max. 45°).

For safety reasons, there is a speed reduction from 10° onwards.

Code 26
The backrest is infinitely inclinable to the rear (max. 30°) by means of a gas spring.


Fig. 23


Fig. 24


Fig. 25


Fig. 26

Armrests

- Do not use the armrests, lights, or joystick box to lift or move the wheelchair!
- Do not travel without the armrests !
  Danger of falling out sideways!

Removal of armrests
- Switch off the wheelchair and engage parking brake. - This prevents an unintentional rolling of the wheelchair (see 'Parking brake' section).
- Remove upwards the armrests code 21 (Sprint), 12 and 106 (Optimus)
  (SPRINT, 1.592)
- Press downwards the locking levers [12] on the left and right outer sides of the seat (Fig.27).
  (OPTIMUS, 1.622 / 2.622)
- Slacken the clamping screw using the handwheel (A, Fig.28).

Anatomically shaped seat unit (Recaro)
(SPRINT Recaro, 1.592)
- Slacken the clamping screw using the handwheel (B, Fig.29).
  (OPTIMUS Recaro, 1.622 / 2.622)
- Fold upwards and to the rear the armrests code 24. -
  To do this, pull the locking knob (C, Fig.30).

Fitting the armrests
- Switch off the wheelchair and engage parking brake. - This prevents an unintentional rolling of the wheelchair (see 'Parking brake' section).

If applicable, **the cable from the joystick box should be fed through the cable throughway in the side panel** when swivelling down the seat unit.
- Insert the armrests, vertically from above, into the appropriate guide until the end-stop is reached.
- Check for correct locking!
- Switch on the wheelchair and test the lights!
- Release parking brake.
  (SPRINT, 1.592)
- The lock must engage.
  (OPTIMUS, 1.622 / 2.622)
- Tighten handwheel (A, Fig.28).

Anatomically shaped seat unit (Recaro)
(SPRINT Recaro, 1.592)
- Slacken the clamping screw using the handwheel (B, Fig.29).

(OPTIMUS Recaro, 1.622 / 2.622)
Fold down forwards the armrests (Fig.31). - The locking knob (C) must engage


Fig. 27

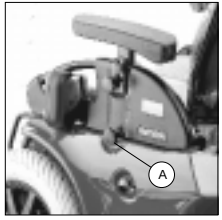


Fig. 28

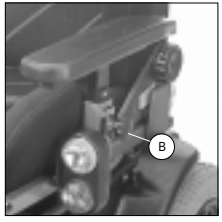


Fig. 29

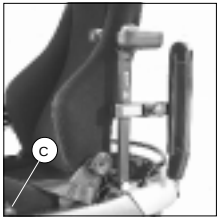


Fig. 30

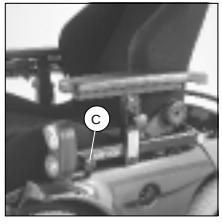


Fig. 31

Armrests

Armrest height adjustment (code 21, 24, 106)

The padded arm supports of the armrests (Fig.32) can be adjusted in 8 steps.

Do not use the armrests, lights, arm supports or joystick box to lift or move the wheelchair!

- Slacken the clamping screws with the handwheel (Fig.33).
- Pull the armrest upwards over the latching point to your desired height.
- To lower, lightly push the armrest downwards over the latching point.
- Slide the armrest to the desired height.
- Tighten the clamping screw with the handwheel (Fig.33).

Use a controlled push when lowering to prevent the armrest sliding down to the end-stop! Danger of squashing - especially for armrest with joystick box!

Adapting the armrest to the joystick (code 21, 24, 106)

The height of padded arm support of the armrest [1] with the joystick box [13] is infinitely adjustable.

Tool:

4 mm Allen key

- Switch off the wheelchair and engage parking brake. - This prevents an unintentional rolling of the wheelchair (see 'Parking brake' section).
- Slacken clamping screw for adjusting the armrest (Fig.34).
- Position the armrest to the desired height (Fig.35).
- Tighten clamping screw.

SEAT

The seat [11] together with the backrest [2] can be swivelled up to the first position (Fig.36) for battery maintenance work.

(OPTIMUS, 1.622 / 2.622 only)
Without the backrest, the seat can be swivelled up to the second position (Fig.37).

- **The U-shaped grips of the legrests are** only for folding up the seat unit and **not for lifting or moving the wheelchair!**
- **Do not fold up foot plates inwards** (towards the seat) (Fig. 16). - **Foot plates** would then catch on the front edge of the frame when swivelling down the seat.

Swivelling up the seat unit

(SPRINT, OPTIMUS: first latching point)

The seat can be swivelled up to the first latching point for battery checking.

- Switch off the wheelchair and engage parking brake. - This prevents an unintentional rolling of the wheelchair (see 'Parking brake' section).
- Pull out the locking knob [6] at the side and in front of the left / right drive wheel (Fig.38) and (SPRINT, 1.592)
- Lift the front edge of the seat and swivel it up to the end-stop (as in Fig.36).
  (OPTIMUS, 1.622 / 2.622)
- Grasp the U-shaped grips of the legrest and swivel the seat upwards to the first latching point (Fig.36).

The latch must audibly click into place!

Fig. 32

Fig. 33

Fig. 34

Fig. 35

SEAT

Swivelling up the seat unit

(OPTIMUS: second latching point)

Swivel the seat up to the second latching point for seat depth adjustment and other fitting work (Fig. 37).

- Switch off the wheelchair and engage parking brake. - This prevents an unintentional rolling of the wheelchair (see 'Parking brake' section).

Seat unit

Remove the backrest (see 'Backrest' section).

Anatomically shaped seat unit (Recaro)

Tilt or fold seat forwards (see 'Adjustments on the anatomically shaped car seat' section).

- Pull the locking knob located at the side in front of the left / right drive wheel and
- Grasp the U-shaped grip on the legrest and swivel the seat unit upwards to the second latching point (Fig.37).
- The latch must audibly click into place.

Adjusting the seat depth

The seat depth can be adjusted by 4 cm through displacement of the backrest:

Tool:

6 mm Allen key, 13 mm open-end / ring spanner.

- Switch off the wheelchair and engage parking brake. - This prevents an unintentional rolling of the wheelchair (see 'Parking brake' section).
- Swivel the seat up to the second latching point (Fig. 37), para. 'Swivelling up the seat unit' (second latching point).
- Slacken the outer left and right backrest securing bolts (Fig.39).
- Set the seat to the desired depth. - To do this, shift the backrest backwards or forwards.
- Tighten the backrest securing bolts.
- Swivel down the seat unit (see para. 'Swivelling down the seat unit').

Swivelling down the seat unit

(SPRINT, 1.592)

- Slightly lift the front seat edge and pull out the locking knob [6].
- Swivel seat unit slowly down (whilst holding the seat)
- Press seat down. - The locking knob must audibly click into place.

(OPTIMUS, 1.622 / 2.622)

- Grip the legrest, lift seat slightly and pull out the locking knob [6].
- Swivel seat unit slowly down (while holding the legrest).
- Press seat down. - The locking knob must audibly click into place.

(second latching point)

Refit or fold back the backrest (see 'Backrest' section).

If applicable, **the cable from the joystick box should be fed through the cable throughway in the side panel** when swivelling down the seat unit.

Special for code 118

The locking knob [6] does not automatically click into place when the electrically adjustable seat unit is swivelled down. To lock the seat unit in the lowest position, pull the locking knob [6] out again and press the seat down to its end-stop. The locking knob must audibly click into place.

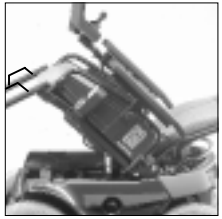


Fig. 36

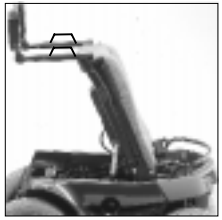


Fig. 37

Fig. 38

Fig. 39

SEAT
Adjustments on the anatomically shaped car seat (Recaro)
The anatomically shaped seat with back side supports and headrest (Fig.40) is infinitely adjustable to the lying position.

Observe the contents of the **'Safety information'** (electronic wheelchairs) brochure, **'Inclinable backrest'** section!
- An inclination of the backrest causes a change in the driving behaviour but does not result in a speed reduction.
- Always **place the inclinable backrest in** the **vertical position** for overcoming obstacles and inclines (over8%)
Danger of overturning during overcoming of obstacles and inclines!
- **Backrest adjustment is only to be made during standstill!**
- For safety reasons, the **speed must be significantly reduced** and adapted to the individual situation.

Code 568
Adjusting the backrest:
- The incline of the backrest is adjusted with the handwheel (A, Fig.41) at the side.
- **Danger of squashing -** when turning the handwheel.

Do not use the handwheel to help the wheelchair user sit up!

Folding over the backrest:
- Fold the backrest forward after lifting the lever (B, Fig.41) at the side.

Code 567
Electrically adjustable backrest.
The electrically adjustable backrest is adjusted with the LCD joystick box (Fig.42).
Benefits:
- Decompression of the posterior musculature (Decubitus prophylaxis).
- Spinal column relief.
- Fatigueless sitting.

Do not use the handwheel to help the wheelchair user sit up!

1. Switch on the joystick box.
2. With stationary wheelchair, keep pressing the **MODE key** until the symbol for backrest adjustment appears in the display.
3. Use the joystick to adjust the backrest as desired.
4. Keep pressing the **MODE key** until the speed ndication appears in the display.
5. Wheelchair is ready to drive.

An inclination of the backrest causes a change in the driving behaviour but does not result in a speed reduction.
Danger of overturning during overcoming of inclines or obstacles!

Code 581
Adjusting the seat depth
The seat depth can be adjusted from 460 mm to 510 mm by pulling out the front seat edge.


Fig. 40

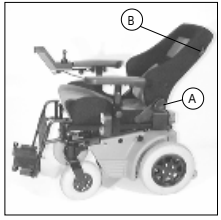


Fig. 41

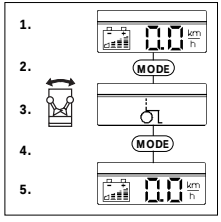


Fig. 42

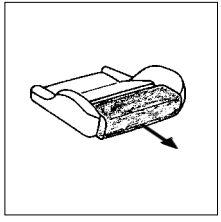


Fig.43

SEAT
Adjustments on the anatomically shaped car seat (Recaro)

Swivelling away the joystick box
- Push locking pin (C, Fig.44) forward over the latching point.
- Swivel the joystick box (Fig.45) outwards (90° max).

Joystick box height adjustment
- Slacken clamping screw (D, Fig.44) whilst supporting the joystick box.
- Position joystick box at desired height and tighten the clamping screw (D, Fig.44).
- If necessary, turn the retention pin (E, Fig.44) by 180° and screw on to bracket from below.

A later relocation of the joystick box to the left armrest can be carried out by your authorised dealer.

Code 569
Electrically adjustable seat unit
The backrest side supports can be adjusted with the middle handwheel (F) on the side of the backrest (Fig.46).

The electrical backrest adjustments for:
- backrest inclination **(not as an aid for sitting up),**
- seat height,
- seat tilt **(assists exit from seat),** and
- back support (Airmatic) are made with the key field at the side of the seat (Fig.47).

Observe the instructions in accompanying operating manual for the seat and the 'Safety information' (electronic wheelchairs) brochure, **'Inclinable backrest'** section!

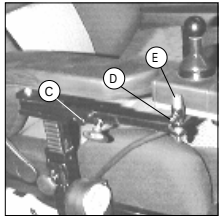


Fig. 44


Fig. 45

Fig. 46


Fig. 47

DRIVE AND PUSH MODES

The wheelchair can also be switched to push mode for manoeuvring.
Compared to a folding wheelchair, greater push and turning forces are required because of the significantly greater weight.

Manoeuvre the wheelchair by **pushing only on even surfaces or in emergency cases!**

Push mode

Switch off the wheelchair and engage parking brake. - This prevents an unintentional rolling of the wheelchair.
SPRINT 1.592, SPRINTI 1.592-603
1. Swivel the Drive / Push mode selection lever in the centre of the rear panel (Fig.48) to the left.
2. Release the parking brake [15].

OPTIMUS 1.622 / 2.622
1. Disengage drive. - Shift Drive / Push mode selection lever upwards (Fig.49).
2. Disengage steering. - Swivel lever [21] in the centre of the rear panel (Fig.50) towards the right to the push position.
3. Release parking brake [15].

Drive mode

Switch off the wheelchair and engage parking brake. - This prevents an unintentional rolling of the wheelchair.
SPRINT 1.592, SPRINTI 1.592-603
1. Swivel the Drive / Push mode selection lever in the centre of the rear panel (Fig.48) to the right.
2. Release the parking brake [15].

OPTIMUS 1.622 / 2.622
1. Engage steering. - Swivel lever (Fig.50) towards the left to the drive symbol. To ease engaging, release the parking brake and move the wheelchair slightly forward.
2. Engage drive. - Shift Drive / Push mode selection lever downwards into the drive position (Fig.49).
3. Release parking brake

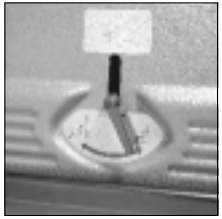


Fig. 49

Fig. 50

SAFETY BELT

Code 833

The safety belt serves to strap in the wheelchair user.
Benefits:
- Additional stabilisation of the sitting position.
- Prevents user from falling forward out of the wheelchair (depending on degree of disability).
- Infinitely adaptable to the user.

A subsequent fitting of a safety belt may only be carried out by your authorised dealer!

Fig. 51

Fastening the safety belt

The quick-release fastener of the safety belt facilitates easy and quick fastening and unfastening.
- Pull belt straps to the front.
- Close belt in front of the body (Fig.51). - Insert the catch tongue deep into the catch mechanism until it audibly clicks, (pull to check secureness!).

To avoid painful pressure points make sure that no objects are trapped between belt and the body!

- Unfasten the safety belt by pressing the red release key on the latch mechanism (see Fig.51).

Belt adjustment:

- Hold latch mechanism at right-angle to the belt.
- Pull the belt in the appropriate direction for lengthening or shortening.
- Secure excess belt material by shifting the plastic slide.

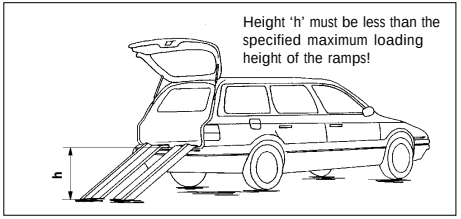
The safety belt should be a tight but not over-tight fit.

DRIVE AND PUSH MODES EURO-SPRINT MODEL 1.593

The selection lever on the side allows simple changeover between drive mode and push mode.
Drive mode Euro-Sprint 1.593
The selection lever is swivelled forward to the end-stop (Photo 1). In this position, the brakes are also engaged during wheelchair standstill.
Push mode Euro-Sprint 1.593
The selection lever is swivelled rearwards to the end-stop (Photo 2).

Photo 1 (Drive mode)

Photo 2 (Push mode)



Height 'h' must be less than the specified maximum loading height of the ramps!

Fig. 52

RAMPS AND LIFTING PLATFORMS

The wheelchair must be loaded with the aid of ramps or lifting platforms.
Observe the following safety information!
- The 'Safety information - electronic wheelchairs' brochure section 'Transport in motor vehicles or with conveyors'.
- The operating manual of the transporting vehicle.
- The advice of the manufacturer of the ramp or lifting platform.

The maximum loading height specified for the ramp must be greater than the height 'h', from the ground to the loading level, e.g. of the car (Fig.52).

The **loading capacity per ramp** or lifting platform must be:
SPRINT 1.592
over 125 kg without occupant and **over 225 kg with occupant (on fixed ramps)!**
OPTIMUS 1.622 / 2.622
over 140 kg without occupant and **over 255 kg with occupant (on fixed ramps)!**

Fig.53

Special safety information for driving on ramps

- For safety reasons, the wheelchair must be empty (without user and luggage) when being loaded into cars or on divided ramps.
- Note that the wheelchair can roll slightly backwards on interruption of travel or at the start of travel

- when situated on a sloping ramp (idle period).
- Park car or van on a level and firm surface and secure against rolling.
- Erect the ramps between ground and transport vehicle in a way which prevents them from slipping.
- The ramp placement should allow sufficient room for small steering corrections and the wheel should not protrude over the ramp sides.
- Drive only on clean, dry and undamaged ramps or lifting platforms.

The ramp must be driven **without user** and with removed joystick box (Fig.53).

WHEELCHAIR LOADING AND TRANSPORT

The loading of the wheelchair into, for example, an **estate car** (Fig.54) makes a reduction in the outer dimensions of the wheelchair necessary (Fig.55).

For transport in vehicles, you **must** leave the wheelchair and occupy a suitable seat in the vehicle. ·Accidents produce forces which the wheelchair was not designed to withstand and therefore seriously endanger you as occupant. Observe the contents of the 'Safety information for electronic wheelchairs' brochure.

1. Engage parking brake. · This prevents an unintentional rolling of the wheelchair.

The following items may need to be carried out:

2. Remove legrests / fold up foot plates to the rear.
3. Remove joystick box.
4. Remove armrests.
5. Remove backrest.

The parts removed for transport must be carefully refitted before the wheelchair is used again! Never use the wheelchair without fitted armrests!

To manoeuvre / lift the wheelchair, **use** for:
SPRINT 1.592
the front **lashing tubes** (Fig.56) **and the** transverse **support castors tube** at the rear (Fig.57).
OPTIMUS 1.622 / 2.622
the railing of the luggage rack **and the front spoke wheels**.
And not the armrests, legrests or their grips!


Fig.54


Fig. 55

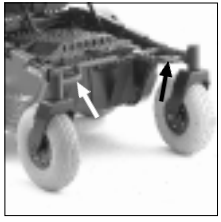


Fig. 36

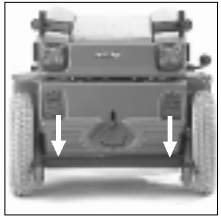


Fig. 37

The wheelchair must be switched off and the parking brake engaged before lifting! · **Danger of squashing** hands inserted into spokes!

SECURING FOR TRANSPORT

To secure for transport, use for:
SPRINT 1.592
the front **lashing tubes** (Fig.56) **and the** transverse **support castors tube** at the rear (Fig.57).
OPTIMUS 1.622 / 2.622
the front and rear spoke wheels.

and not the luggage rack, the armrests, backrest, legrests or their grips!

Once your wheelchair is in the transporting vehicle, carry out the following:
- Switch off the wheelchair.
- Safely stow the joystick box.
- Safely stow and protect parts removed from the wheelchair.
- Secure the wheelchair with lashing straps.
- Apply the parking brake.

The **lashing straps are only to be attached to appropriate components** of the vehicle and the wheelchair!
Suitable fastening points are usually available in cars, or similar, and described in the vehicle handbook.

Obtain advice from your car dealer about the safe fastening points in your vehicle prior to first transport of the wheelchair!

SPECIAL FEATURES OF EURO-SPRINT

BRAKE

The EURO-SPRINT model 1.593 has no drum brake acting as additional parking brake.
The brake lever at the side switches the electromagnetic brake from drive mode to push mode!
The electromagnetic brake is fully effective as soon the brake lever is set to drive mode. **- No measured deceleration possible!**

DRIVE AND PUSH MODES

The selection lever on the side allows simple changeover between drive mode and push mode.

Drive mode

The selection lever is swivelled forward to the end-stop (Photo 1). In this position, the brakes are also engaged during wheelchair standstill.

Push mode

The selection lever is swivelled rearwards to the end-stop (Ph. 2).

Armrests

The armrests are removable and height adjustable.

Height adjustment

Slacken the clamping screw A (Photo 3) to adjust.
Observe the minimum insertion depth of 5 cm (note marking).

Removal of armrests

Slacken the clamping screw A (Photo 3) to remove the armrests. The connections under the seat plate must be loosened for side elements with joystick box (Photo 4).

Length adjustment of the joystick box.

The joystick box can be positioned to suit your lower arm after the clamping screw B (Photo 3) has been slackened.


Photo 2 (Push mode)


Photo 1 (Drive mode)


Photo 2

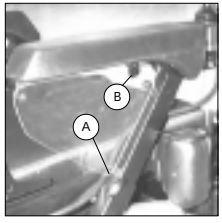


Photo 3

SPECIAL FEATURES OF EURO-SPRINT MODEL 1.593

SEAT UNIT

The seat unit (seat and backrest) can be swivelled up (Fig. 6) after the locking knob C (Fig.5) has been pulled.

To swivel up the seat unit, grip under the front edge of the seat plate and / or the U-shaped tube (Fig. 5).

The support rod must be used to support the swivelled up seat unit (Fig.7).

Seat width adjustment

The seat width can be adjusted by displacement of the mount for the side element. The mounts can be displaced after its clamping screw (D, Fig.7) has been slackened.

Do not displace the armrest support further outwards than the limit marking.

BACKREST

The selection lever must be swivelled fully forward for backrest adjustment. In this position, the brakes are also applied when the wheelchair is stationary.

Backrest removal

Lift off the backrest upwards after having disassembled the bolt connection C (Fig.8).

Mounting the backrest

Insert the backrest into the mounting tubes and slide up to the end-stop. - Then secure with bolted connection C (Fig.8).

Adjusting the backrest inclination.

Remove screw B (Fig.8) after having slackened the screwed connection A on both sides. Set backrest inclination as desired, fit screw B in new position and tighten screwed connection A.

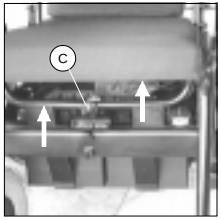


Fig.5

Fig.6

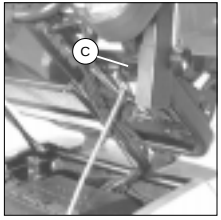


Fig. 7

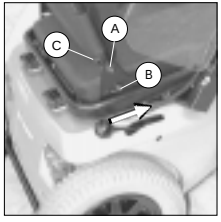


Fig.8

SPECIAL FEATURES OF EURO-SPRINT MODEL 1.593

SEAT UNIT

The seat unit (seat and backrest) can be swivelled up (Photo 6) after the locking knob C (Photo 5) has been pulled.

To swivel up the seat unit, grip under the front edge of the seat plate and / or the U-shaped tube (Photo 5).

The support rod must be used to support the swivelled up seat unit (Photo 7).

Seat width adjustment

The seat width can be adjusted by displacement of the armrest fixings. The armrests fixings can be displaced after their clamping screw (D, Fig.7) has been slackened.

Do not displace armrest fixings further outwards than the limit marking.

BACKREST

The selection lever must be swivelled fully forward for backrest adjustment. In this position, the brakes are also applied when the wheelchair is stationary.

Backrest removal

Lift off the backrest upwards after having disassembled the bolt connection C (Photo 8).

Mounting the backrest

Insert the backrest into the mounting tubes and slide up to the end-stop. - Then secure with bolted connection C (Photo 8).

Adjusting the backrest inclination.

Remove screw B (Photo 8) after having slackened the screwed connection A on both sides. Set backrest inclination as desired, fit screw B in new position and tighten screwed connection A.

Photo 9

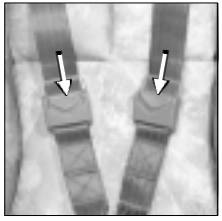


Photo 11

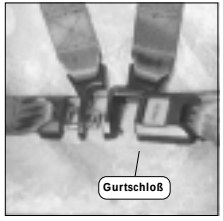


Photo 10

Photo 12

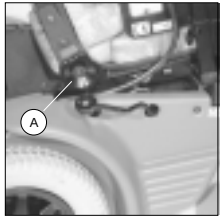


Photo 13

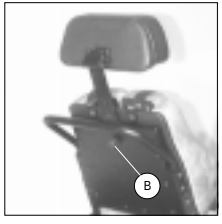


Photo 14

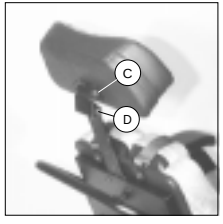


Photo 15

SPECIAL FEATURES OF SPRINTI MOD.1.592-603

Adjusting the seat depth
The seat depth can be adjusted after the securing screws A (Fig.16) have been slackened. Retighten the screws after the adjustment!

Adjusting the seat width
The seat width can be adjusted after the securing screw B (Fig.17) has been slackened. Retighten the screw after the adjustment!

Observe the min. insertion depth of 5 cm!

LEGREST

Adjusting the lower leg length
Remove bolted connection C (Fig.18), reposition foot plate to a new hole position and remake bolted connection.

Adjusting the foot plate angle
Slacken clamping screw D (Fig.18), adjust foot plate angle and retighten screw.

FUSES

Replacing defective fuse
A malfunction caused by a defective fuse can be remedied by replacement.
The rear panel must be removed to allow access. · Unscrew the handwheels (Fig.19) to remove the panel.
Check fuses (Fig.20) and replace if necessary. · Contact your authorised dealer if malfunction continues!

DRIVE

Switching to drive mode
Swivel (anti-clockwise) selection lever to left lower position (Fig.21).

Switching to push mode
Swivel (clockwise) selection lever to upper right position (Fig.22).

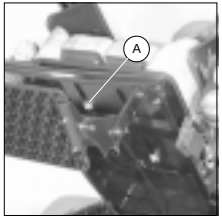


Fig.16

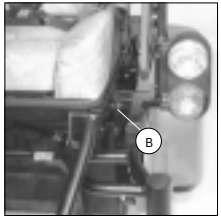


Fig.17

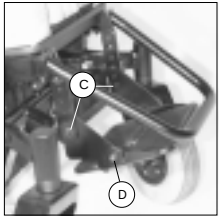


Fig.18

Maintenance / modification work, settings and adjustments should **only** be carried **with engaged parking brake and removed drive key**! The **main fuse** should also be **removed when working on the electrical system!**
· **Danger of accident** through unintentional wheelchair movement!

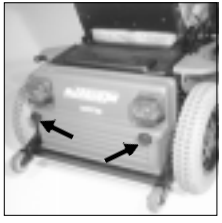


Fig.19

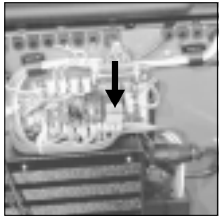


Fig.20


Fig.21

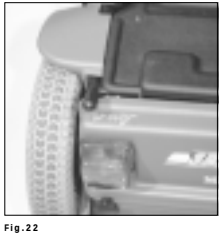


Fig.22

TRANSPORT OF OBJECTS

- Luggage should only be stowed on the luggage rack behind the backrest (Fig.53).
- Do not exceed the max. permitted luggage rack weight of 10 kg.
- Luggage on the backrest can alter the driving behaviour.
- **Do not convey passengers** with the wheelchair, particularly not **on the luggage rack**(Fig.54)!
- Objects must not project over the sides of the wheelchair!


Fig.58

Give consideration to any l luggage behind the backrest when inclining the backrest or tilting the seat!

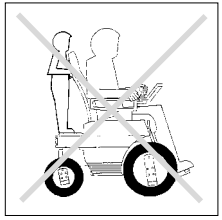


Fig.59

Straps for securing luggage are not supplied with the wheelchair.

MAINTENANCE

Servicing
Like any other technical product, your SPRINT also requires servicing. The following maintenance instructions describe, in table form, the work which has to be carried so that you can continue to fully enjoy the advantages of your wheelchair (e.g. road / operating safety, long driving distance) even after longer use.

Care

Seat and backrest covers:
Clean the covers with warm water. A commercial fine-fabric detergent can be used to remove soiling. Spots can be removed with a sponge or a soft brush.

Do not use aggressive cleaning methods, e.g. solvents, hard brushes, etc.
Rinse with clean water and allow to dry.

Plastic parts:
The plastic panels and parts are manufactured using high-quality plastic. Clean these with a soft moist cloth and a commercial plastic cleaner. Observe the special product information for the cleaner.

Do not spray the electronic wheelchair with a high-pressure hose.
Do not use a carwash facility! Clean plastic parts only with a moist cloth. Use water mixed with a non-aggressive liquid domestic cleaner.

Coating:
The high-quality surface finish guarantees optimum corrosion protection. If the coating is damaged through scratches or similar, repair the area with a paint pen available from MEYRA. An occasional light oiling of the moving parts (see also maintenance instructions) will ensure that you will have continued pleasure from your wheelchair.

Repairs
For repair work, you can rely on your specialist workshop. It has been instructed how to do such work and usually has trained staff.

Customer service
Please contact your authorised MEYRA dealer if you have any questions or need help. Your authorised dealer has been trained according to our guidelines in our factory and is qualified to give advice and carry out servicing and repairs. We have a network of approx. 1,500 dealers in Germany. This ensures that your wishes will be fulfilled.

Spare parts
are only available from your authorised dealer. Use **only original MEYRA spare parts!**
The frame number of your wheelchair must always be included with the spare part order to ensure that the correct part is supplied!
Whenever a modification is made to your wheelchair, your authorised dealer must add the relevant 'Code No.' (e.g. 'fitting instructions') and the date of modification to the wheelchair operating manual.
This avoids incorrect information being used when spare parts are subsequently ordered.

MAINTENANCE INSTRUCTIONS

WHEN	WHAT	REMARK
Before drive start	**Check braking system for perfect functioning** Move brake lever [15] to end-stop. The braked wheels must not turn under operating conditions. If they do, get your brakes corrected by your authorised dealer.	Carry out the check yourself or with the assistance of another person (see Safety information - 'Brakes' section)
Especially before driving in the dark	Check lights and indicators for perfect functioning	Replace defective bulbs, see 'Maintenance - Lights' section. 'Driving on public roads' section of 'Safety information' brochure.
Every 2 weeks (depending on distance driven)	Check tyre pressures Standard tyres: 2.5 bar	Carry out yourself or with the assistance of another person. Use tyre pressure tester or, if not available, the 'thumb pressing method' or similar (see Safety information - 'Tyres' section).
	Check tyre tread Min. tread depth = 1 mm	Carry out visual check yourself. Contact you authorised dealer for maintenance work if tyres are damaged or excessively worn.
Every 2 - 6 weeks (or more often, depending on charging frequency and ambient temperature)	**Battery maintenance** Unsealed batteries: - acid level - acid density - clean battery terminals and clamps **Sealed batteries:** - no maintenance	Carry out the check yourself or with the assistance of another person! Observe contents of the 'Battery maintenance' section!
Every 6 months (depending on frequency of use)	Check: - cleanness - overall condition	See 'Care' See 'Maintenance'
Every 12 months (depending on frequency of use)	Safety inspection Recommended by MEYRA	To be carried out by the authorised dealer.

AIR PUMP

The supplied air pump enables low-pressure tyres to be quickly pumped up to the correct pressure (Fig. 60).

- Remove the tyre valve cap.
- Fold down footrest by 90° and place under foot.
- Pull upwards and fold over handle.

Pull air hose from clip and screw onto valve.

Pump carefully. - Danger of squashing fingers through folding handle!

Screw valve cap back on after pumping!

Fig. 60

MAINTENANCE

LIGHTS

The front adjustable indicator and light units are contained in splash-proof housings fitted to the armrests (Fig.61).

Headlight adjustment

Tool: screwdriver

- Slacken the securing screws.
- Adjust the headlight (Fig. 62).
- Tighten the securing screws.

Headlight bulb replacement

Filament bulb:
24V / 3W E10
Tool: Phillips screwdriver

Disassembly:

- Pull out the main fuse.
- Slacken the securing screw and remove the lens (Fig.63).
- Remove the bulb holder with bulb from the lens.
- Unscrew the bulb from its holder (Fig.64).

Assembly:

- Screw the new bulb into the bulb holder (Fig.64). - Earth wire lies over the thread of the bulb holder.
- Insert the bulb holder with bulb into the lens.
- Fit lens (Fig.63). - Insert the upper lug first, then push on lens at the bottom and secure with screw.

Indicator light (front)

Spherical bulb:
24V / 10W BA15s
Tool: Phillips screwdriver

Disassembly:

- Pull out the main fuse.
- Slacken securing screw and remove lens (Fig.65).
- Press the defective bulb lightly inwards, turn it and then pull it out of its holder (Fig.66).

Fi.61

Fig.62

The headlight alignment must produce a visible light ball on the driving surface. Adjust so that the lower edge of the light ball is about 3 metres in front of the wheelchair.

Fig.63

Fig.64

Switch off light and pull out the main fuse before replacing a defective bulb (Fig.76 and Fig.77).

Fig.65

Fig.66

Assembly:

- Fit the new bulb. - Slide the side pins (bayonet latch) into the socket slots (Fig.66) , push lightly against the spring, then turn until the bayonet latch catches.
- Fit the lens. - Insert the side lug first (Fig.65), then push on lens and secure with screw

MAINTENANCE

LIGHTS

Switch off the wheelchair and pull out the main fuse before replacing a defective bulb (Fig.76 and Fig.77).

Indicator light (rear)

Spherical bulb:
24V / 21W BA15s
Tool: Phillips screwdriver
Disassembly:
- Slacken securing screws and remove lens (Fig.67).
- Press the defective bulb lightly into the holder and against the spring action, turn it and then pull it out of its holder (Fig.68).

Assembly:
- Fit the new bulb. - Slide the side pins (bayonet latch) into the holder slots (Fig.68) , push lightly against the spring, then turn until the bayonet latch catches.
- Fit the lens. - Push on lens and secure with screws (Fig.67).


Fig. 67


Fig. 68

Rear light

Festoon filament bulb:
24V / C5W S8.5
Tool: Phillips screwdriver
Disassembly:
- Slacken securing screws and remove lens (Fig.67).
- Press defective bulb against one of the retaining lugs (Fig.69) and then remove.

Assembly:
- Fit new bulb. - Press one pointed bulb end into the hole of a retaining lug (Fig.69) and then press into the hole of the other lug.

Fit the lens. - Push on lens and secure with screw (Fig67).


Fig. 69

MAINTENANCE

BATTERIES

Maintenance of wet batteries

Wet batteries have visible sealing plugs. A regular battery maintenance guarantees the full utilisation of the service life of the batteries.

When working on the batteries, do not allow tools, cable ends or other metallic objects to come in contact with the **battery terminals**. - **Danger of short-circuit and explosion!**

Avoid open flames and sparking in the vicinity of the batteries.
- Danger of explosion!

Battery acid is corrosive!
In event of battery spray on skin, in the eyes or on clothing, rinse immediately under running water. Seek emergency medical treatment.

Battery replacement should only be carried out by a specialist workshop, because its personnel knows the potential dangers and because it will dispose of the defective batteries as required by law.

Batteries can explode in case of sparking, e.g. through short-circuit of the battery terminals.

Battery maintenance
Observe the information given in the 'General information on the electrical system' and 'Maintenance' section of the 'Safety information' brochure.

- Switch off the wheelchair and engage the parking brake. - This prevents an unintentional rolling of the wheelchair (see 'Parking brake' section).
- Swivel up the seat unit (Fig.70)
- Pull out the fuse (Fig.76 or Fig.77).
- Unclip the securing strap. - Press together the spring-loaded latches to do this (Fig.71).
- Lift battery cover (Fig.72)
- Clean the surface of the batteries with a dry cloth.
- Open the sealing plug of only one battery cell (Fig73).

The main fuse must always be removed when working on the batteries or electrical/ electronic modules!


Fig. 70


Fig. 71


Fig. 72


Fig. 73

MAINTENANCE

Checking the acid level

First recharge discharged batteries and only then, if necessary, top up with distilled water.

The acid level sinks, particularly with high ambient temperatures, due to evaporation of the water content.
The acid level is correct when it is:
- just above the sealing plug inserts or
- approx. 5 mm above the upper edges of the plates.

Maintenance-free batteries:
Sealing plugs not visible. - Do not require maintenance! Acid density cannot be measured.
* = figures in kg/dm³

Measuring the acid density

The acid density measurement with the acid tester gives an insight into the actual charge state of the batteries.

Observe the information given in the 'General information on the electrical system' section of the 'Safety information' brochure.

- With compressed ball pump, insert the sucking tube into the cell opening and submerge it in the acid (as in Fig.74).
- Suck the acid into the tester by slowly releasing the ball pump (Fig.74).
- The indicator float must float freely in the acid (Fig.74).
- Compare the acid level with the charge scale of the float.

Recharge battery immediately when the acid level of a cell is below the scale value 1.18*. Battery is fully charged when the acid levels of all cells are above the scale value 1.28*.
The differences between the acid density values of the individual cells should not exceed 0.02 to 0.03 kg/dm³. If it does, this could be due to damage. Seek assistance from a specialist workshop.


Fig. 74

Charging the batteries

Observe the following before charging:
- 'General information on the electrical system' section of the 'Safety information' brochure and
- Information on the battery charger!

Wet batteries (visible sealing plugs) and **maintenance-free batteries must only be charged with** the **corresponding** and **permitted battery charger**.
Do not charge in closed rooms. - Charging produces poisonous vapours. **Ventilate room well!**
Only use chargers suited to the battery type. The batteries may otherwise be destroyed.
Charge the batteries:
- before a long run,
- after a long period of standstill,

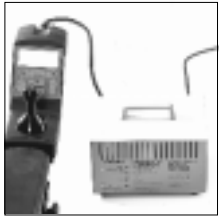


Fig. 75

Charging process

A full charging of maintenance-free batteries is, for technical reasons, only possible with very long charging times (>36 hrs.). A full-indication equates to approx. 90-95% of the rated capacity.
Recharge the batteries as often as possible.
- Switch off the wheelchair and engage the parking brake. - This prevents an unintentional rolling of the wheelchair.

Charging with the charging socket:
- Insert the plug of the charger into the charging socket on the joystick box (Fig.75).
- Plug the mains plug of the charger into a convenient mains socket.

The charging process is initiated.

Charging is only possible when the (flat) mains fuse (Fig.76 or Fig.77) and the fuse for the electronics are intact.

Preferably load overnight. A full charge of the batteries takes about 12 to 15 hours.

Battery replacement should only be carried out by a specialist workshop, because its personnel knows the potential dangers. Batteries can explode in case of, e.g. through short-circuit of the battery terminals, can cause batteries to **explode!**

MAINTENANCE FUSES

Replacing a defective fuse

Replace **fuse** only with **identical type.**
New fuses are available at every petrol station.
When the fuse blows again, let your authorised dealer remedy the cause.
Main fuse for the battery circuit:
The flat fuse for the battery current is located in the fuse holder under the seat (Fig.76 or Fig.77).
An **immediate full-braking** takes place **when the fuse is removed** during driving! Danger of accident!

Fuses
OPTIMUS 1.622/2.622
Main fuse for 6 km/h version
= 60 amp maxi-fuse
(light blue, flat)
Main fuse for 10 km/h version
= 80 amp maxi-fuse
(white, flat)

Other flat fuses
The following flat fuses are located in a row on the adapter circuit board in the adapter box (as A, Fig.78):
- 15A charging fuse
- 2A power electronics control
- 7.5A electrical adjustment
- 4 A lights
- 4 A steering

SPRINT 1.592
SPRINTI 1.592-603
EURO-SPRINT 1.593
Main fuse for 6 and 10 km/h versions
= 60 amp maxi-fuse
(light blue, flat)

Other flat fuses
The following flat fuses are located in a row on the adapter circuit board in the adapter box (A, Fig.78):


Fig. 76


Fig. 77

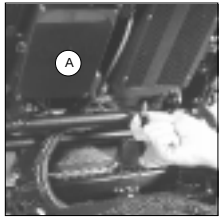


Fig. 78

- 15A charging fuse
- 2A power electronics control
- 7.5A electrical adjustment
- 4 A lights

Battery charging fuse
10 amp T/5x20
The fuse for the charging process is located on the rear side of the electronics box under the seat adjacent to the connection plug and can be screwed out by hand (Fig.78)

MAINTENANCE

Error correction

Your wheelchair will drive trouble-free when correctly handled. The following table containing possible faults (errors) and their correction will help to maintain your driving pleasure, particularly if this is your first electronic wheelchair.

We recommend an annual inspection for the early identification and correction of faults not listed here. The following inspection records should be completed by your authorised dealer after such inspections.

Work on the inner mechanics of the joystick and **on the electronics may only be carried out by the specialist workshop.**
Never oil or otherwise lubricate the joystick mechanics, instead, replace completely!

Defect	Cause	Remedy
LED, LCD display does not light up after switching on the wheelchair	The main fuse for the battery circuit is defective (flat fuse) or not plugged deep enough	Change flat fuse or plug correctly.
Control light (26) blinks while the warning light is not switched on	Defect in the electronic unit.	Repair by a specialized workshop
Lighting not active	Multipoint plug of the armrest is dirty (Fig.61) Lighting or electronic fuse is defective Filament bulb is defective	Clean multipoint plug on the armrest Exchange defective fuse Put in a new filament bulb
Wheelchair does not start Brake symbol lights up	Drive or steering unit not clutched Main fuse defective Applied parking brake Overheated electronic unit	Clutch drive and steering unit Exchange fuse Release parking brake Switch off the wheelchair and switch on again after cooling down

Error (fault) messages in the LCD display
An error message appears in the LCD display or the signalling bar blinks with interval when a fault is detected.

The error messages help the specialist workshop to localise the fault more quickly.

The electronic unit carries out a self-test after the joystick box has been switched on. The signalling bar blinks until the end of the test.
Do not move the joystick out of the zero position during the self-test.

Error messages on the LCD display

Error message and effect	Cause	Remedy
E 54, E 55 Warning E54, then wheelchair standstill E 55	Battery undervoltage due to total discharge of battery	Charge batteries immediately !

If you do, switch the wheelchair off and then on again and wait until the signalling bar stops blinking.

In event of other error messages, contact your authorised dealer.

TECHNICAL DATA

All information in the following tables relate to the standard version of the respective model.

Dimensional tolerance ± 1.5 cm

The height and weight depend on the level of equipment and seat unit version.

Battery information:
Lead acid batteries in open or sealed construction.

Two batteries, each 12V in series for 24V = use with 50…60Ah capacity for cyclic operation.

Max. rated current< 100A

Connection with lead or quick-fit clamps.

Maximum battery dimensions:
280 x 180 x 200 mm

Overload limit

SPRINT 1.592
40 A min. for 15 sec. min.

SPRINT 1.592-603
40 A min. for 15 sec. min.

EURO-SPRINT 1.593
40 A min. for 15 sec. min.

OPTIMUS 1.622/2.622
100 A min. for 15 sec. min.

Driving distance performance

The driving distance performance depends to a large extent on the following factors:
- Battery condition
- Weight of the driver
- Driving speed
- Driving manner
- Nature of the driving surface
- Driving conditions
- Ambient temperature

The rating data given by us is realistic under the following conditions:
- Ambient temperature of 27°C.
- 100% rated capacity of the batteries as per DIN standards.
- As-new batteries with more than 5 charging cycles.
- Straight-run travel at max. top speed.
- Rated loading with 75kg.
- Without repeated acceleration.
- Even driving surface.

Flat fuses

- 60A main fuse (6km/h)
- 80A main fuse (10km/h)
- 15A charging fuse
- 2A power electronics control
- 7.5A electrical adjustment
- 4 A lights
- 4A steering

The driving distance

performance is greatly reduced by:
- Frequent uphill driving.
- Poor charge state of batteries.
- Low ambient temperature (e.g. in winter).
- Frequent starting and braking (e.g. town driving).
- Aged sulphated batteries.
- Frequent steering manoeuvres.
- Reduced driving speed (particularly at walking speed).

In practice, under 'normal conditions' the achievable driving distance is reduced to 80-40% of the rated value.

Hill climbing ability

We have approved the vehicle for driving on rising/falling inclines of 15% for the SPRINT models and 22% for the OPTIMUS. We would, however, like to emphasie that the actual hill climbing ability is much higher because additional power has to be made available for safe overcoming of obstacles.
- Rated loading with 75 kg.
- Normal road surface

For safety reasons, rising/falling inclines over 15% (e.g. ramps) must only be driven without the user!

Filament bulbs

Headlight =24V/3W E10 Spherical bulb

Tail light = 24V/C5W S8.5 Festoon bulb

Front indicator=24V/10W BA15s Spherical bulb

Rear indicator=24V/21W BA15s Spherical bulb

CE This product conforms with the EU guideline 93/42/EEC for medical products.

TECHNICAL DATA

Table 1

1) **Standard model with** 43 cm seat width (code 43), legrest code 99 (standard), **acid batteries** code 80 (liquid electrolyte).
2) **Standard model with** 43 cm seat width (code 43), legrest code 99 (standard), **acid batteries**, code 88 (liquid electrolyte).

Temperature range:
Working range -15° to 35°C ambient.

Tyre pressure:
2.5 bar
The maximum tyre pressure is indicated on both sides of the tyres.

Batteries:
2 drive batteries, each 12V in series (=24V), 50…60Ah (5h)
Max. rated current < 100A
Connection with lead or quick-fit clamps.
Maximum battery dimensions:
280 x 180 x 200 mm

Tyres OPTIMUS 1.622/2.622:
Front: 3.00 - 10"
Rear: 3.00 - 8"

OPTIMUS, model 1.622/2.622			
Class of use	Class B		
Seat width [cm]	40	43	48
Seat height [cm]	53		
Seat depth [cm]	41 - 45	45- 49	
Backrest height [cm]	50		
Armrest height [cm]	20 - 28		
Length [cm]	ready to run	120 - 132	
	transport	106 - 118	
Height [cm] (w/out) with headrest	Ergoform	(102), 122	
	Light	104	
	Recaro	112	
Width [cm]	66,5		
Width transport [cm]			
Steering wheel (front) [mm]	260 x 85		
Drive wheel (rear) [inches]	3.00 x 8"		
Turning circle [m]	220		
Max.obstacle height [mm]	60		
Max.step height downwards [mm]	60		
Permitt.falling gradient [%]	15		
Permitt.cross-slope [%]	12		
Permitt.rising gradient [%]	15		
Max.continuos climbing ability [%]	15		
Turnover stability	22		
Permitt.battery tilt [angle]	55°		
Empty weight with gel-batteries [kg]	Code 115		
	Code 117		
Empty weight with acid-batteries [kg]	Code 115	135	
	Code 117	155	
Permitt.total weight [kg]	280 depending on equipment fitted		
Max. user weight [kg]	100		
Max. luggage weight [kg]	10		
Driving distance with gel-batteries [km]	6 km/h	40	
	10 km/h	30	
Driving distance with acid-batteries [km]	6 km/h	50	
	10 km/h	40	

*) Depending on leg support type and lower-leg length adjustment.

TECHNICAL DATA

Table 2
1) Total height with headrest: approx. 131 cm
2) **Standard model with** 43 cm seat width (code 43), legrest code 93 (standard), **gel batteries** code 85 (bonded electrolyte)
3) **Standard model with** 43 cm seat width (code 43), legrest code 93 [standard], **acid batteries** code 80 (liquid electrolyte)

Temperature range:
Working range -15° to 35°C ambient.

Tyre pressure:
2.5 bar
The maximum tyre pressure is indicated on both sides of the tyres.

Batteries:
2 drive batteries, each 12V in series (= 24 V) with 50…60 Ah (5h).
Max. rated current < 100A
Connection with lead or quick-fit clamps.
Max. battery dimensions:
280 x 180 x 200 mm

SPRINT, model 1.592			
Class of use	Class B		
Seat width [cm]	40	43	48
Seat height [cm]	54		
Seat depth [cm]	41 - 45	45 - 49	
Backrest height [cm]	50		
Armrest height [cm]	20 - 28		
Length [cm]	ready to run	114	
	transport		
Height [cm]	ready to run	102 [1]	
	transport		
Width [cm]	67		71
Width transport [cm]			
Steering wheel (front) [mm]	260 x 85		
Drive wheel (rear) [inches]	3.00 x• 8"		
Turning circle [m]	1,85		
Max.obstacle height [mm]	60		
Max.step height downwards [mm]	60		
Permitt.falling gradient [%]	15		
Permitt.cross-slope [%]	12		
Permitt.rising gradient [%]	15		
Max.continuos climbing ability [%]	15		
Turnover stability	22		
Permitt.battery tilt [angle]	55°		
Empty weight with gel-batteries [kg]	ready to run		127 [2]
	transport (w/out backrest, side elements, leg supports)		
Empty weight with acid-batteries [kg]	ready to run		121 [3]
	transport (w/out backrest, side elements, leg supports)		
Permitt.total weight [kg]	250		
Max. user weight [kg]	100		
Max. luggage weight [kg]	10		
Driving distance with gel-batteries [km]	6 km/h	40	
	10 km/h	30	
Driving distance with acid-batteries [km]	6 km/h	50	
	10 km/h	40	

TECHNICAL DATA
Table 3

Temperature range:
Working range -15° to 35°C ambient.

Tyre pressure:
2.5 bar
The maximum tyre pressure is indicated on both sides of the tyres.

Batteries:
2 drive batteries, each 12V in series (=24V) with 50...60 Ah (5h).
Max. rated current < 100A
Connection with lead or quick-fit clamps.
Max. battery dimensions:
280 x 180 x 200 mm

EURO-SPRINT, model 1.593		
Class of use	Class B	
Seat width [cm]	40 - 48	
Seat height [cm]	54	
Seat depth [cm]	39 - 48	
Backrest height [cm]	45	
Armrest height [cm]	20 - 25	
	ready to run	transport
Length [cm]	1140	850
Height [cm]	1020	560
Width [cm]	670	640
Steering wheel (front) [mm]	260 x 85	
Drive wheel (rear) [inches]	3.00 x 8"	
Turning circle [m]	1,85	
Max. obstacle height [mm]	60	
Max. step height downwards [mm]	60	
Permitt. falling gradient [%]	12	
Permitt. cross-slope [%]	12	
Permitt.rising gradient [%]	12	
Max.continuous climbing ability [%]	12	
Turnover stability [%]	22	
Permitt.battery tilt [angle]	55°	
Empty weight with gel-batteries [kg]	ready to run	121
	transport (w/out backrest, side elements, leg supports)	112
Empty weight with acid-batteries [kg]	ready to run	115
	transport (w/out backrest, side elements, leg supports)	106
Permitt. total weight [kg]	230	
Max. user weight [kg]	100	
Max.luggage weight [kg]	10	
Driving distance with gel-batteries [km]	6 km/h	40
	10 km/h	30
Driving distance with acid-batteries [km]	6 km/h	50
	10 km/h	40

TECHNICAL DATA
Table 4

Temperature range:
Working range -15° to 35°C ambient.

Tyre pressure:
2.5 bar
The maximum tyre pressure is indicated on both sides of the tyres.

Batteries:
2 drive batteries, each 12V in series (=24V) with 50...60 Ah (5h).
Max. rated current < 100A
Connection with lead or quick-fit clamps.
Max. battery dimensions:
280 x 180 x 200 mm

SPRINTI, model 1.592-603		
Class of use	Class B	
Seat width [cm]	32 - 38	
Seat height [cm]	54	
Seat depth [cm]	32 - 38	
Backrest height [cm]	37	
Armrest height [cm]	16 - 21	
Length [cm]	ready to run	110
	transport	104
Height [cm]	ready to run	97 - 111
	transport	84
Width [cm]	ready to run	67
	transport	64
Steering wheel (front) [mm]	230 x 70	
Drive wheel (rear) [inches]	3.00 x 8"	
Turning circle [m]	1,95	
Max.obstacle height [mm]	50	
Max. step height down [mm]	60	
Permitt.falling gradient [%]	15	
Permitt. cross-slope [%]	12	
Permitt. rising gradient [%]	15	
Max.continuous climbing [%]	15	
Turnover stability [%]	22	
Permitt. battery till [angle]	55°	
Empty weight with gel-batteries [kg]	ready to run	124
	transport	124
Empty weight with acid-batteries [kg]	ready to run	118
	transport	118
Permitt.total weight [kg]	210	
Max. user weight [kg]	70	
Max. luggage weight [kg]	10	
Driving distance with gel-batteries [km]	6 km/h	40
Driving distance with acid-batteries [km]	6 km/h	50

INSPECTION RECORD

Vehicle data:

Model:

Delivery note No.:

Frame No.:

Hand-over inspection

Stamp of authorised dealer:

Signature:

Place, date:

Next safety inspection in 12 months

Date:

Recommended safety inspection (at least every 12 months)

Stamp of authorised dealer:

Signature:

Place, date:

Next safety inspection in 12 months

Date:

Recommended safety inspection (at least every 12 months)

Stamp of authorised dealer:

Signature:

Place, date:

Next safety inspection in 12 months

Date:

Recommended safety inspection (at least every 12 months)

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Signature:

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Next safety inspection in 12 months

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Stamp of authorised dealer:

Signature:

Place, date:

Next safety inspection in 12 months

Date:

Recommended safety inspection (at least every 12 months)

Stamp of authorised dealer:

Signature:

Place, date:

Next safety inspection in 12 months

Date:

NOTES

GUARANTEE

For our electric wheelchairs, we provide, within the framework of our Terms of Delivery and Payment,a **1-Year Guarantee** of perfect quality. We reserve the right to make technical improvements.
Should you have any complaint about the wheelchair or one of its parts, please do not fail to send us the enclosed guarantee cut-out with your complaint.

Please do not forget to provide us with the information requested therein about the model designation (RECARO, always add if applicable!) frame No., delivery note No., the delivery date and your authorised dealer.

The frame No. can be found on the type plate which is located on the frame tube in front of the batteries.

Failure to observe the instruction in the operating manual, incorrectly carried out maintenance work and, especially, technical modifications and additions (add-ons) carried out without the agreement of MEYRA result in general loss of guarantee and product liability.

This operating manual is a component of the wheelchair and is to be handed over whenever the user or owner changes.

Fill out ! In case of need, cut out and send by post.

GUARANTEE

Model designation :

Delivery note :

Frame No. :

Delivery date :

Stamp of authorised dealer :

MEYRA®
WHEELCHAIRS AND REHABILITATION EQUIPMENT

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