en

Scooter
Model 2.364

Operating manual

CE

MEYRA®
We move people.

Contents

Introduction **5**
Indications **6**
Acceptance **6**
Specifications **6**
Use **7**
Insurance licence plate 7
Adjustment **8**
Life span **8**
Overview **9**
Model:2.364 4-wheel 9
Control panel 10
Driving lock 10
Battery charging socket 10
Handling the *SCOOTER* ***11***
Supplementary safety information 11
Functional checks 11
Locking the SCOOTER 11
Drive key 12
Position of drive key 12
Director 13
Drive-/push mode 14
Selecting the motor mode 14
Selecting the push mode 14
Emergency lock down of the magnetic brake 15
Selecting the operation 16
Pre-operation checks **18**
Battery charging procedure 19
Driving behaviour **20**
Direction of travel 20
Acceleration rotary grip , foot accelerator 20
Accelerator lever 21

Driving speed 21
Forward driving speed 21
Backwards driving speed 21
Left/right turns 22
Brakes 23
Operating brake 23
Parking brake 23
Braking the ***SCOOTER*** ***23***
Dosed braking 23
Emergency braking 23
Braking distance 23
Loading and transportation 24
Loading 24
Transport in vehicles 24
Passenger transport in handicapped transport vehicles (HTV) 24
Transport security 25
Reducing the size of the ***SCOOTER*** ***26***
Disassembling the ***SCOOTER*** into components 27
Reassembly of SCOOTER-components 31
Components 34
Seat 34
Turning the seat 34
Removing the seat 35
Attaching the seat 35
Arm support 36
Swivelling up the arm support 36
Adjusting the height of the arm supports 36
Adjusting the distance seat to tiller 36
Back support 37
Adjusting the headrest height 37
Front basket 38
Support castors 38
Insurance licence plate 38

Retaining strap 39
Fastening the retaining strap 39
Opening the retaining strap 39
Adjustment of belt length 39
Maintenance 40
Maintenance 40
Maintenance schedule 41
Tyre damage on pneumatic tyres 43
Lighting 44
Adjusting the headlights 44
Fuses/connections 47
Mains-/battery fuses 47
Charging and control fuse 47
Replace fuse 47
Fault correction 48
Information for the specialist dealer 49
Programming the driving behaviour 49
Technical data 50
Kilometric performance 50
Hill climbing ability 50
Fuses 51
Lighting 51
Model 2.364 52
Meaning of the labels on the ***SCOOTER*** ***..... 55***
Symbols 55
Meaning of the symbols on the type plate 56
Inspection certificate 57
Warranty / Guarantee 58
Warrantee / Guarantee section 59
Inspection certificate for transfer 59

INTRODUCTION

We thank you for the confidence you have placed in our company by way of choosing the *SCOOTER*.

The model you selected fulfils your desire for mobility and more independence.

As any other vehicle, the *SCOOTER* is a technical aid. It is subject to explanations, requires regular care and can cause danger when used improperly. The correct handling must therefore be learned. This operating manual is to help you get accustomed to the handling of your *SCOOTER* as well as to prevent accidents.

☞ **Note:**
Please note that the illustrated equipment variants can deviate from your model.

We have therefore also listed chapters with options that might not be applicable for your vehicle.

Attention:
! Read and observe the following documentation belonging to the *SCOOTER* before first operation:

– this operating manual,

– the operating manual *SCOOTER* < *Control panel with LCD-display* >.

– the safety and general handling instructions < *Electronic vehicles* >.

☞ **Note:**
Children and juveniles should read the documentation belonging to the *SCOOTER* together with their parents respectively a supervisor or an accompanying person before first use.

For users with visual impairments the PDF-files of the above mentioned documents can be accessed on our website < *www.meyra.com* >.

☞ Contact your specialist dealer when required.

Alternatively users with visual impairments can have the documentation read out by a helper.

INDICATIONS

If the following indications occur we recommend the application of this mobility product:

☞ Extremely limited walking abilities in the scope of the basic requirement to move around in your own apartment and to be able to leave the apartment, in order to catch some fresh air outside or in order to reach places close by for daily demands.

☞ Provision with an electronic vehicle is required when use of manual wheelchairs is not possible due to the handicap, but operation of an electronic motor lies within the capabilities.

☞ A bit of remaining walking abilities is required for the use of such vehicles.

ACCEPTANCE

All products are checked for faults in the factory and packed in special boxes.

☞ **Note:**
However, we request that you check the vehicle for possible transport damage immediately on receipt – preferably in the presence of the carrier.

☞ **Note:**
The packaging of the *SCOOTER* should be stored for a further transport that might become necessary.

SPECIFICATIONS

The *SCOOTER* is an environment-friendly electronic vehicle. It was developed to extend the mobility of persons with health-related or age-related restrictions.

☞ The *SCOOTER* fulfils the < *demands of handicapped people* > according to EN 614-1.

☞ The model has been assigned the 'Use Class C' as per the EN 12184 standard.

USE

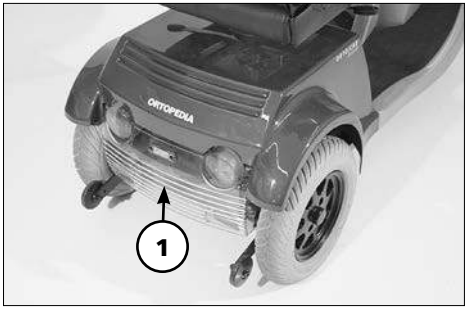
Attention:

! The general capability of the driver to participate in traffic must be given!

This model is a *SCOOTER* for driving on firm, level surfaces outside and open indoor spaces (e. g. shopping centres).

It serves exclusively for the conveyance of a **sitting** person.
Other pulling or transporting uses do not comply with its intended purpose.

This model is a SCOOTER, mainly for outdoor use on firm, level surfaces.



Insurance licence plate

The insurance plate (if required) should be mounted onto the attachment surface (1) in the center of the rear revetment.

☞ The licence plate can be used to mark the holes for drilling.

☞ **Note:**

☞ Assembly of the licence plate should be carried out by a specialist workshop.

ADJUSTMENT

The specialist dealer hands your *SCOOTER* over under consideration of all relevant safety regulations in an operationally ready state and adjusted to your demands.

☞ **Note:**

☞ We recommend a regular check of the adjustments with the goal of achieving a long term optimal provision even in case of changing disease-/handicap patterns of the user. Especially for juveniles we recommend refitting every 6 months.

☞ We recommend regular physical check ups by a doctor in order to ensure active use of the *SCOOTER's.*

Attention:

! Always have adaptation and adjustment work carried out by a specialist dealer.

LIFE SPAN

We expect an average lifespan of about 5 years for this product, as far as the product is applied for its designated purpose and all maintenance and service guidelines.

The life span of your product depends upon the frequency of use, the application environment and care.

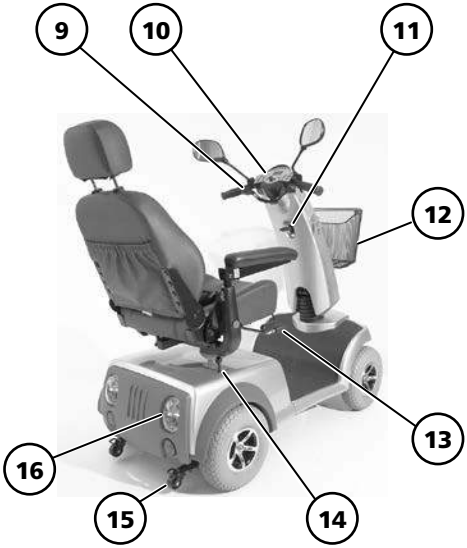
The implementation of spare parts can prolong the life span of the product. As a rule spare parts are available up to 5 years after production is discontinued.

☞ The indicated life span does not constitute additional guarantee.

OVERVIEW

Model:2.364 4-wheel

The overview shows the most important components and operating equipment.



Pos.	Description
1	Seat
2	Handle bar grip
3	Steering column
4	Drive key
5	Headlight
6	Front indicator
7	Steering wheel
8	Drive wheel

Pos.	Description
9	Actuator (director)
10	Control panel
11	Lever for steering column locking device
12	Front basket
13	Lever for seat lock
14	Lever of the magnetic brake – Emergency lock
15	Support wheel
16	Back light / Rear indicator

Control panel

☞ **Note:**
The function and meaning of the keys and symbols are explained in the separate operating manual < *Control panel with LCD-Display* >.

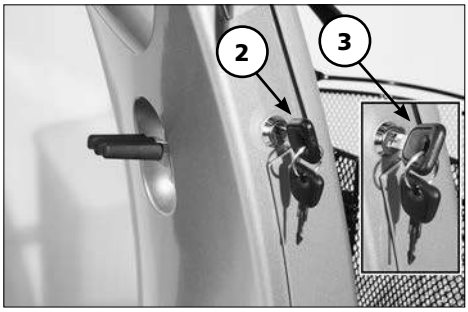
Driving lock

(1) Driving lock

(2) Key position 0 (***OFF***)

(3) Key position 45° (Push mode)

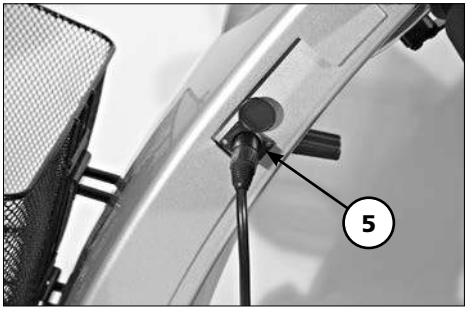
(4) Key position 90° (***ON***)



Battery charging socket

(5) Battery charging socket
– The battery charging socket (5) is protected by a cover plate that can be swivelled to the side.

☞ View chapter < *Battery charging procedure* >.



HANDLING THE *SCOOTER*

Attention:

! Observe the safety and general handling instructions < *Electronic vehicles* >!

Supplementary safety information

☞ **Note:**
Do not grab with fingers into open frame tubes (e. g. after loosing cover plugs or caps). – Danger of injury!

Attention:

! A stable sitting position is to kept while using the SCOOTER, even when not in motion and especially on hills and slopes. – Danger of accidents!

☞ In a safe sitting position the back of the user lies directly on the back support belt and the hip of the user is at the back end of the seat belt.

- Transit out of the SCOOTER on hills/slopes may only be carried out in emergencies and with the aid of an accompanying person and/or helper! – Danger of accidents!

Functional checks

The functions and safety of the *SCOOTER* must be checked before the start of each journey.

☞ Hereto observe chapter < *Pre-operation checks* >.

Locking the SCOOTER

In order to secure the *SCOOTER* against unpermitted or unwanted use, switch off the *SCOOTER* and pull out the driving key (1).

☞ Therefore also observe chapter < *Driving key* >.

☞ The selection lever drive/push mode is in drive mode position.

☞ Therefore also observe chapter < *Emergency lock of the magnetic brake* >.

Drive key

Position of drive key

☞ Therefore also observe the operating manual *SCOOTER < Control panel with LCD-display >*!

Position ***OFF***

The driving key is inserted parallel to the steering column as far as possible into the driving key socket (1).

– For switching off turn the driving key from the position (2)+(3) as far as possible counter clockwise (1).

☞ The *SCOOTER* is switched off.

Position ***push*** mode

The driving is inserted turned clockwise by 45° inside the driving key socket (2).

– For pushing turn the driving key from position (1) clockwise by 45° (2).

☞ The pushing mode is pre-selected.

Position ***ON***

The driving key is inserted horizontally to the steering column as far as possible into the driving key socket (3).

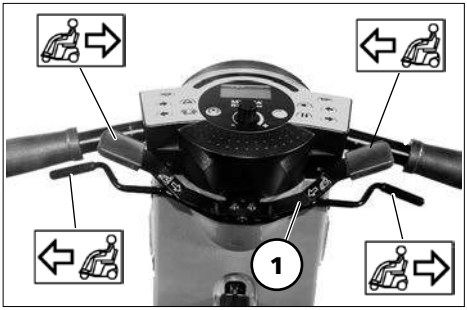
– For switching on turn the driving key from position (1) clockwise by 90° (3).

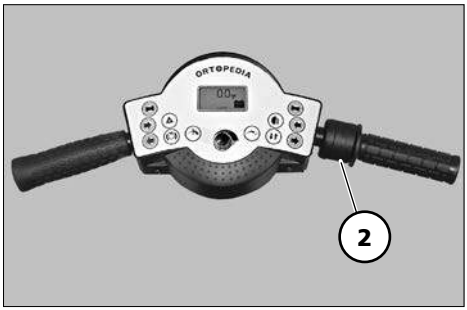
☞ The drive mode is activated.
– The display switches every 10 sec. between daily/ and overall kilometres.

Director

The desired driving speed is achieved through activation of the director via the:

– the actuator as a seesaw device for thumb activation (standard),
– the actuator as a thumb or finger seesaw lever (option) (1),
– acceleration rotary grip (option) (2),
– foot accelerator (option) (3).





Drive-/push mode

☞ **Note:**
Switch the *SCOOTER* into the push mode only for manoeuvring on a level surface.

☞ The weight of the *SCOOTER* makes corresponding steering and pushing forces necessary.

Selecting the motor mode

In order to establish drive mode turn the driving key to position ***ON*** (1).

☞ Therefore observe chapter < *Driving key* >.

☞ The *SCOOTER* is now ready for use.

Selecting the push mode

In order to establish push mode turn the driving key to position Push (2).

☞ Therefore observe chapter < *Driving key* >.

The *SCOOTER* can be pushed as long as the push mode key (3) is pressed down.

☞ Therefore also observe the operating manual *SCOOTER* < *Control panel with LCD-display* >!

Attention:
! In order to push the *SCOOTER* in case of a total collapse of the electronic observe the chapter < *Emergency lock of the magnetic brake* >!

Emergency lock down of the magnetic brake

The magnetic brake on the motor is automatically activated when battery voltage is lost.

☞ The *SCOOTER* is thus secured completely against rolling away.

Disconnecting the emergency lock

In order to disconnect the emergency lock for pushing the *SCOOTER* the activated magnetic brake can be released at the motor [1].

1. Before disconnecting the emergency lock switch the *SCOOTER* off.
   ☞ Therefore observe chapter < *Driving key* >.
2. In order to push the *SCOOTER* first press the lever of the magnetic brake (2) down as far as possible then push it towards the back [1].

Re-establishing the emergency lock

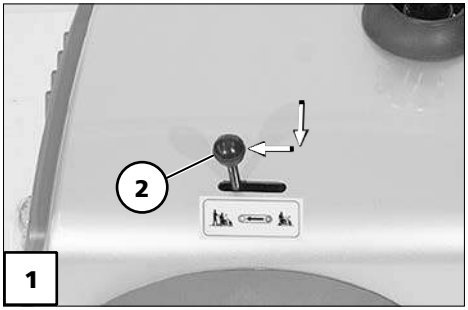
– In order to establish magnetic brake, first press the lever of the magnetic brake (2) forward as far as possible and then let it engage towards the top [3].

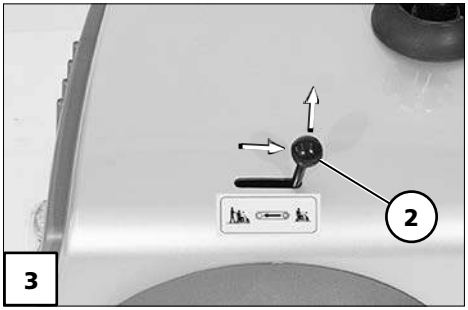
If required establish drive mode.

☞ Therefore observe chapter < *Establishing drive mode* >.

Attention:

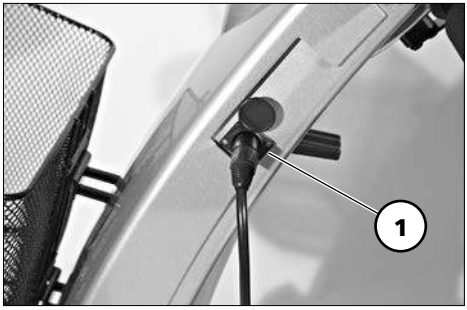
! Do not activate the lever of the magnetic brake (2) while driving!





Selecting the operation

In order to obtain operational readiness of the *SCOOTER* the following directions are to be carried out in the indicated order.



☞ **Note:**
Before first use the drive batteries should be charged through the charging socket (1).

☞ Therefore observe chapter < *Battery charging procedure* >.

Attention:
! Only enter or exit the seat of the *SCOOTER* when the driving key is pulled.
– An unintentional movement of the accelerator lever can cause an uncontrolled movement of the *SCOOTER*!
– Danger of accidents!

- Do not insert objects, other than the driving key, resp. the battery charging plug into the corresponding sockets.
– Danger of short circuit!

1. Selecting the motor mode

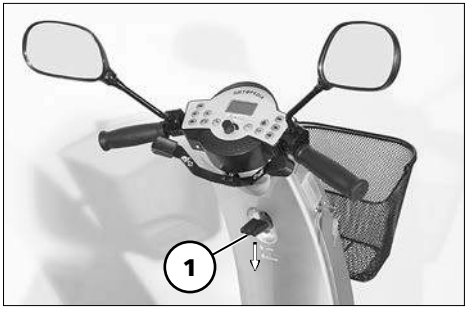
☞ View chapter < *Drive-*/push mode >.

2. Adjusting the steering column

The steering column is to be adjusted so that the *SCOOTER* can be steered comfortably and safely.

– For adjusting the steering column press the lever of the steering column locking device (1) down.

☞ Hereto observe chapter < *Steering column* >.

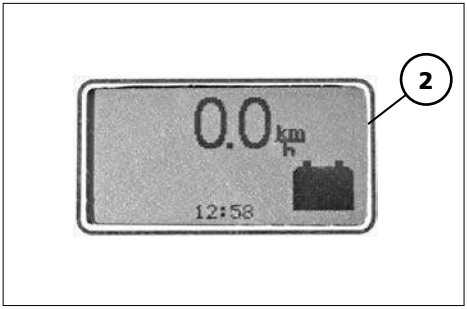


3. Switching on the SCOOTER

Turn the driving key into the ***ON*** position (2) in order to switch the Scooter on (3).

☞ Therefore observe chapter < *Driving key* >.

☞ Also observe the operating manual *SCOOTER* < *Control panel with LCD-display* >!



Attention:

! Do not insert anything other than the driving key into the drive lock.
– Danger of short circuit!

☞ **Note:**
Do not move the director during the initiation phase of about one second.

– The electronic is ready when the speed gauge shows up in the LCD-display (2).

PRE-OPERATION CHECKS

☞ Therefore observe the operating manual < *Control panel with LCD-display* >!

Before starting to drive, the following should be checked:

☞ The status of the battery charge through the battery gauge (1),

– Therefore observe chapter < *Battery gauge* >.

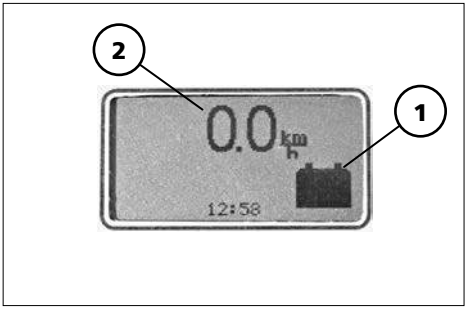
☞ the pre-selected maximum final speed setting (2).

– Therefore observe chapter < *Limiting the maximum speed* >.

☞ conduct a functionality test.

– For this start driving slowly. Carry out a short braking and steering test after starting off.

☞ Also view chapter < *Maintenance schedule* >.

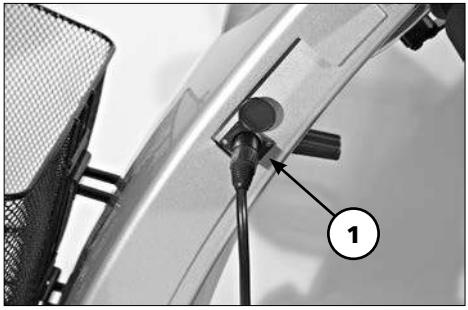


Battery charging procedure

For the battery charging procedure park and secure the *SCOOTER* on a level surface.

☞ View chapter < *Securing the SCOOTER* >.

1. Swivel the cover of the battery charging socket to the side and plug the battery charger into the battery charging socket (1).



Attention:

! Do not insert anything other than the battery charging plug into the battery charging socket.
– Danger of short circuit!

☞ Therefore also observe the operating manual of the battery charger.

2. Switch the battery charger on, resp. insert the main plug of the battery charger into the corresponding socket.

☞ The battery charging cycle is initiated.

☞ The battery charging procedure can only be carried out with intact mains-/battery fuses!

☞ View chapter < *Fuses/Connections* >.

3. After a completed charging procedure disconnect the battery charger from the socket and remove the battery charging plug from the battery charging socket.

4. Afterwards recover the battery charging socket.

DRIVING BEHAVIOUR

Speed is determined by motion of the director:

– The accelerator lever (1),
– the acceleration rotary grip,
– the foot accelerator

as well as the pre-selected final speed.

Attention:

! Drive especially carefully during the first journeys!

☞ Pre-select the lowest final speed for this purpose.

☞ Therefore also observe the operating manual < *Control panel with LCD-display* >!

Direction of travel

☞ **Note:**

☞ The speed is reduced automatically during the rearward travel.

☞ The backward driving horn signal can be deactivated by your specialist dealer if desired.

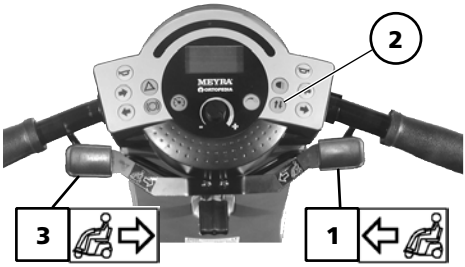
Acceleration rotary grip , foot accelerator

The direction of travel is reversed with the direction key (2).

☞ Therefore observe the operating manual < *Control panel with LCD-display* >!

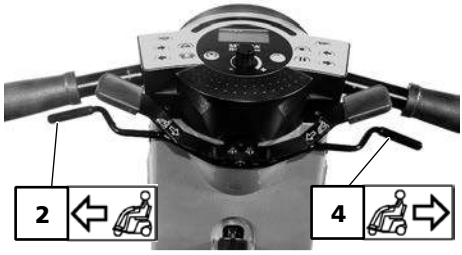
Accelerator lever

The driving direction is determined through the activation side of the accelerator lever.



Forward motion

[1] Right	Press cap with thumb dent
[2] Left	Pull lever with hand (option)



Rearward travel

[3] Left	Press cap with thumb dent
[4] Right	Pull lever with hand (option)

Driving speed

Slowly move the director out of the basic position until the desired driving speed is reached.

Forward driving speed

Move the right lever side [1] of the driving director forward.

Backwards driving speed

Move the left lever side [3] of the driving director forward.

Left/right turns

In order to drive curves, move the steering column to the right or left with the handles, depending on the desired curve radius.

☞ Curves are to be driven through at adequate speed.

! **Attention:**
Danger of tilting when turning around, especially on slopes and hills!

The *SCOOTER* features and automatic blinker reset after driving through a curve.

☞ The additional turn-signal control is mandatory in all cases!

☞ **Note on speed reduction:**

☞ The *SCOOTER* features a three step speed reduction. Here the driving speed is automatically set to an adequate curve speed depending on the steering motion of the handle bars.

BRAKES

Attention:

! If the braking force reduces immediately have the brakes repaired by a specialist workshop.

☞ Observe the safety and general handling instructions < *Electronic vehicles* >!

Operating brake

The motor works electrically as an operating brake and decelerates the *SCOOTER* softly and jerk-free to a standstill.

Parking brake

The parking brake releases automatically during start-off.

Braking the *SCOOTER*

Dosed braking

Guide the driving lever (director) back into the original position according to the desired braking effect.

The braking distance of the *SCOOTER* must be taken into account for a timely braking.

Attention:

! Brake the *SCOOTER* down early in front of persons or an obstacle.

Emergency braking

Let the driving lever (director) independently jump back into the zero-position.

☞ The *SCOOTER* brakes down at shortest distance.

- An abrupt braking when driving downhill at a high speed can cause your *SCOOTER* to skid! – Danger of accidents!
- When driving down slopes an adequate speed is to be selected!

Braking distance

☞ **Note:**
See also the < *Technical Data* > section.

LOADING AND TRANSPORTATION

☞ Do not use the back support, arm supports or steering column in order to lift the *SCOOTER*!

Attention:

! Secure the *SCOOTER* before lifting!

☞ Therefore observe chapter < *Securing the SCOOTER* >.

Loading

The *SCOOTER* can be loaded with the aid of ramps or lifting platforms.

☞ **Note:**
Observe safety and general handling instructions < *Electronic vehicles* > chapter < *Ramps and lifting platforms* >.

Transport in vehicles

Attention:

! Transport of the *SCOOTERS* may only be carried out in driving direction!

To save space for the transport in vehicles a reduced *SCOOTER*-dimension can be required.

☞ view chapter < *SCOOTER-dimension reduction* >.

Passenger transport in handicapped transport vehicles (HTV)

To determine if your *SCOOTER* is approved as a seat for transport inside an HTV, please look at the type plate.

The product is approved as a seat within an HTV.

The product is **not** approved as a seat within an HTV.

Transport security

☞ View document safety and general handling instructions < *Electronic vehicles* > chapter < *Transport in motor vehicles or conveyors* >.

– Establish electrical safety

☞ For this observe the regulations of the respective transport company.

– Locking the SCOOTER

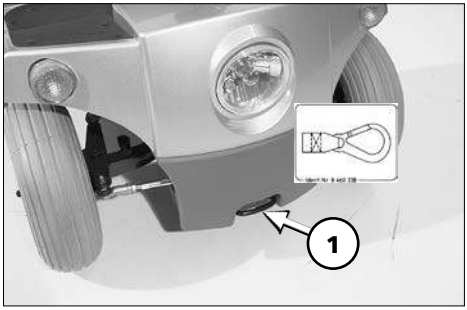
☞ Therefore also observe chapter < *Securing the SCOOTER* >.

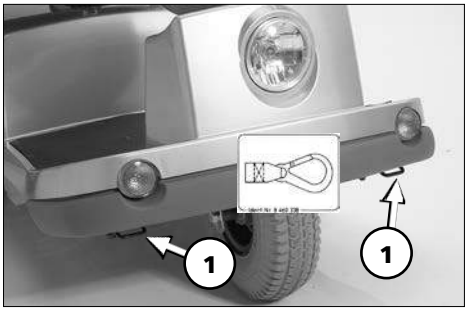
☞ The selection lever drive/push mode is in drive mode position.

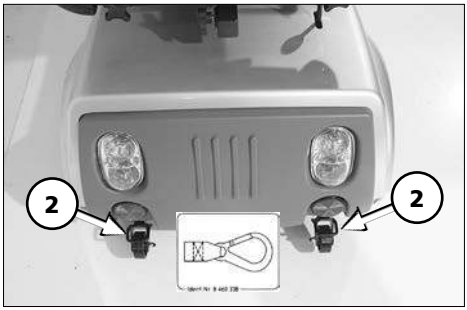
Dismantled parts of the *SCOOTER* are to be stored safely and protected.

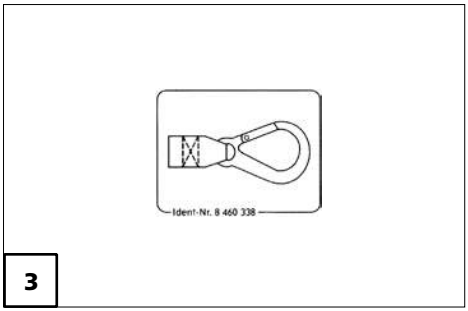
The *SCOOTER* is only to be secured through the securing points (1) and (2).

☞ The anchor positions are marked with the symbol (3).









Reducing the size of the *SCOOTER*

For storage or the transport (e.g. in a car), the size of the *SCOOTER* can be reduced as follows (1).

1. Lock the *SCOOTER*.

☞ Therefore observe chapter < *Securing the SCOOTER* >.

2. Remove the front basket.

☞ Therefore observe chapter < *Front basket* >.

3. Remove the seat.

☞ Therefore observe chapter < *Seat* >.

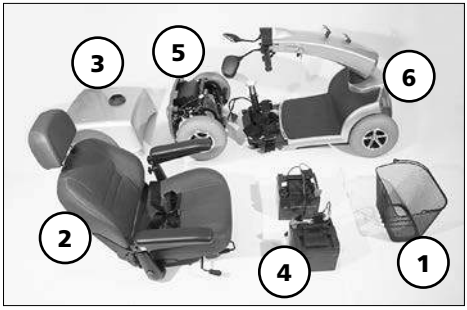
4. Swivel down the steering column.

☞ Therefore observe chapter < *Steering column* >.

The parts detached for the transport must be carefully stowed and carefully attached again before the next journey!

Disassembling the *SCOOTER* into components

The *SCOOTER* can also be disassembled into several components as follows for the transport in a small vehicle.



① **Front basket**

☞ Therefore observe chapter < *Front basket* >.

② **Seat**

☞ Therefore observe chapter < *Seat* >.

③ **Rear panel**

☞ Therefore observe chapter < *Removing the batteries* >.

④ **Batteries**

☞ Therefore observe chapter < *Removing the batteries* >.

⑤ **Rear section**

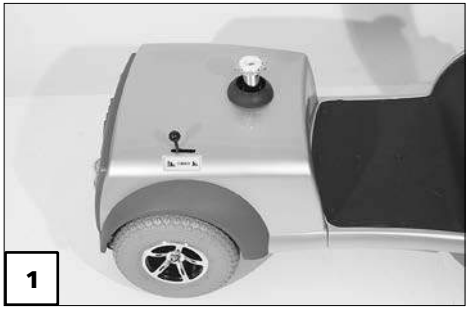
☞ Therefore observe chapter < *Removing the rear panel* >.

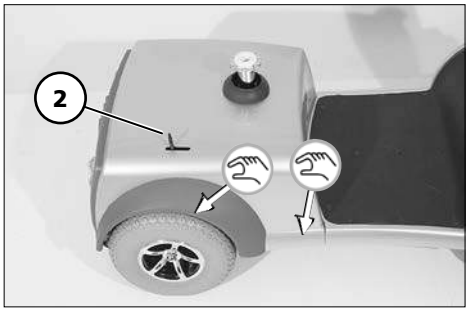
⑥ **Front section**

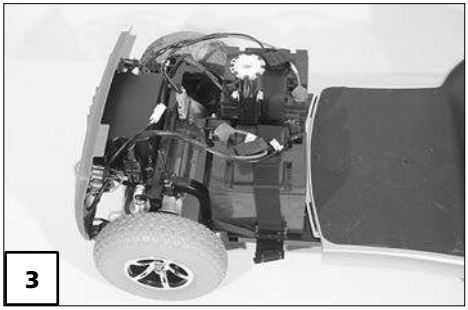
☞ No tools are required in order to dismantle the *SCOOTER* into its components.

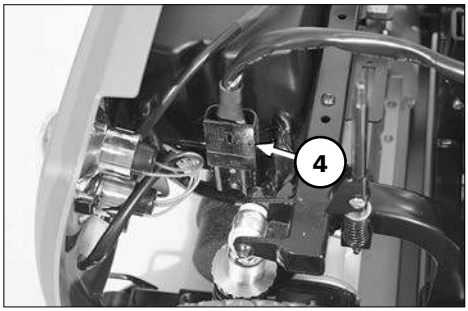
Removing the batteries

1. Switch off the *SCOOTER* and pull out the drive key.
2. Remove the seat [1].
   ☞ Therefore observe chapter < *Seat* >.
3. The ball grip of the selection lever has to be screwed off before removing the battery cover (2).
   ☞ In order to prevent loosing the ball grip it should be replaced after the battery cover has been removed.
4. First lift of the rear panel (3) then store it in a protected and safe spot.
   – By careful lifting of the rear panel the corresponding velcro fasteners are opened.
5. Disconnect the battery cable (4) on both sides.
   ☞ To pull them off hold onto the connection plugs.
   – **Do not pull on the cables!**









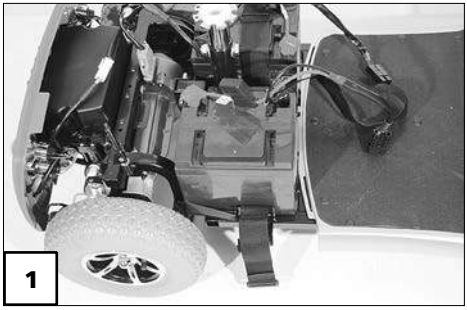
6. Open the velcro fastener of the spanning belts of each battery (1).
7. Lift out the batteries (2).

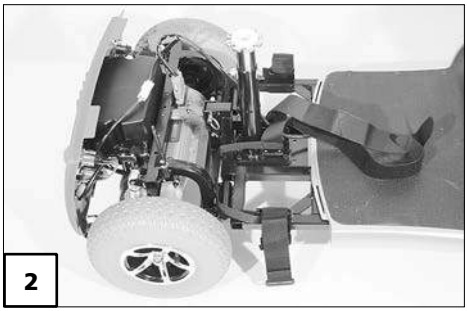
Removing the rear revetment

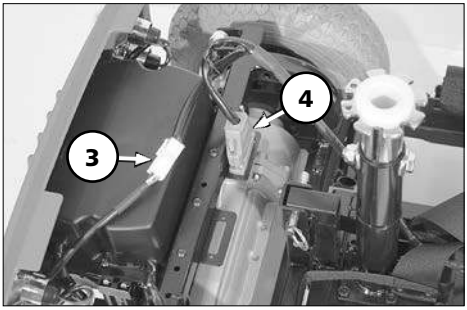
1. Unplug the connections (3) of the back lights.
   ☞ To pull them off hold onto the connection plugs.
   – **Do not pull on the cables!**

☞ **Note:**
The plug is secured by a spring lock that has to be unlocked by pressing it together at the upper end.

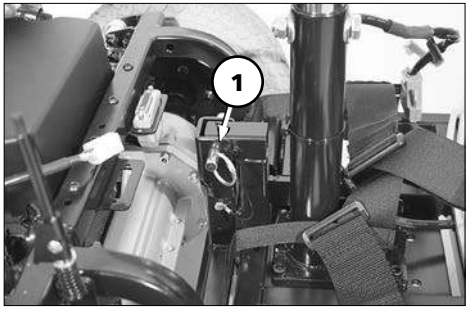
2. Pull the main plug for the controller (4).
   ☞ Previously remove the screws at the side.



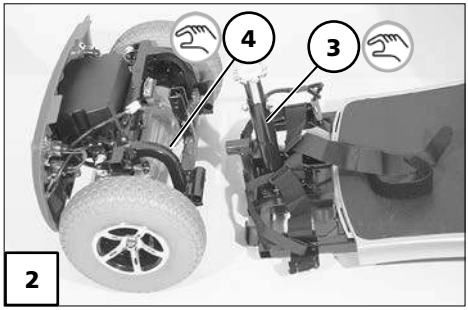




3. Pull out the locking lever (1) first, then swivel the now unlocked rear chassis from the front part and place it onto the floor (2).



☞ **Note:**
For easier unlocking first slightly lift the seat tube (3) the fold the rear chassis (4) toward the back. Afterwards press the front chassis over the seat tube (3) slightly down and place it on the floor (2).



Folding down the steering column

1. To fold the steering column over pull the locking lever on the steering column and then swivel down the steering column (5).
   ☞ Hereto observe chapter < *Adjustment of the steering column* >.

Reassembly of SCOOTER-components

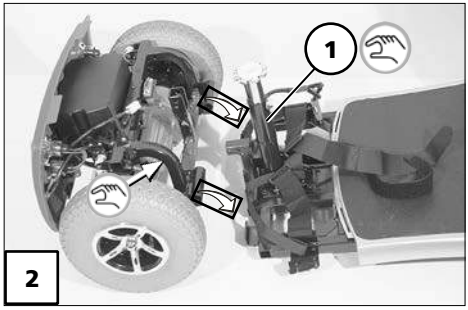
☞ Before assembly a visual check of the single components should be conducted for completeness and damages.

☞ Here the following is to be observed closely:
– The brackets to receive the drive may not be bent.
– The locking bolt to connect the front and rear chassis is at the end of the safety wire.
– The connection cables are not damaged.

Inserting the rear chassis

First put the drive into drive mode.

1. Lift the front chassis at the seat tube (1) and at the same time swivel the rear chassis forward so that the support tubes of the rear chassis glide onto the brackets of the front chassis (2).
2. Let the rear and front chassis slide down over the seat tube as far as possible (3).

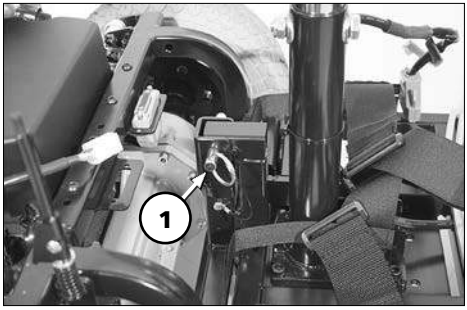


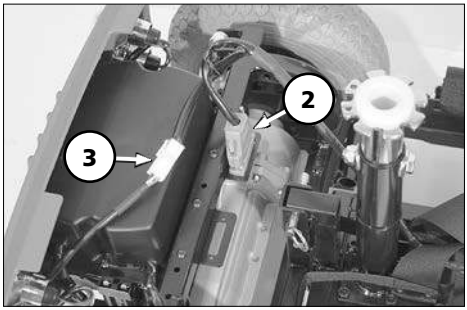
3. Replace the locking bolt (1).

Attention:

! The locking bolt has to be visibly pushed through.

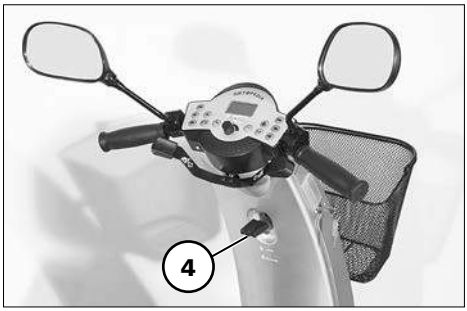
4. Replace the main plug (2).
   ☞ Replace the screws at the side of the main plug to the for safety.
5. Re-establish the plugged connection of the tail lights (3).
   ☞ The plug must catch when being established.
   – Conduct a slight pulling test on the plug.





Raising the steering column

1. Activate the locking lever (4) to raise the steering column.
   ☞ Hereto observe chapter < *Adjustment of the steering column* >.



Mounting the batteries

Mounting is done in reverse order.

1. Set the batteries into the frame and secure them with the spanning straps (1).

Attention:

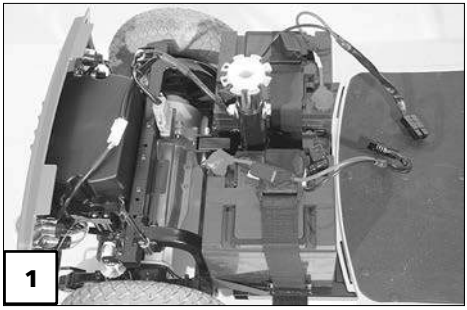
! Make sure that the cables are correctly routed when mounting the batteries.
– Danger of cable damage.

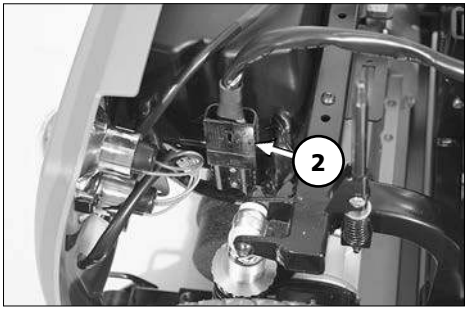
2. Reconnect the battery cable (2) on both sides.
   ☞ Insert the plugs as far as possible.
   – Conduct a slight pulling test on the plug.

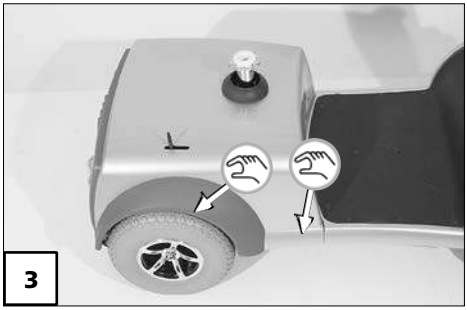
3. Replace the battery lid (3).
   ☞ If necessary screw the ball grip off of the selection lever first.

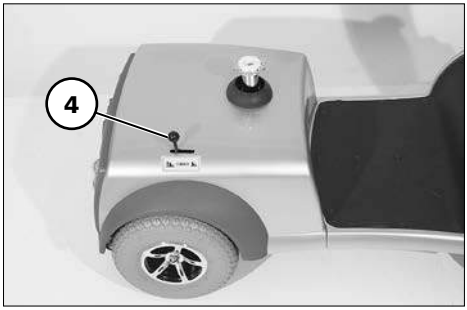
3. Screw the ball grip back onto the selection lever (4).

5. Replace the seat.
   ☞ Let the seat locking device snap into place and check for secure fit.









COMPONENTS

Seat

☞ **Note:**
The seat supplied (1) may vary from the one shown in the illustration.

The seat (1) can be removed and is height adjustable.

Turning the seat

The seat can be turned for an easier transfer to or from the seat [2].

In order to disengage the seat locking device, press the lever at the side (3) upward.

Attention:
! Do not reach between the seat lever with the fingers while doing so.

☞ Danger of squashing the fingers!

☞ After each 45° step the seat locking device engages automatically.

Removing the seat

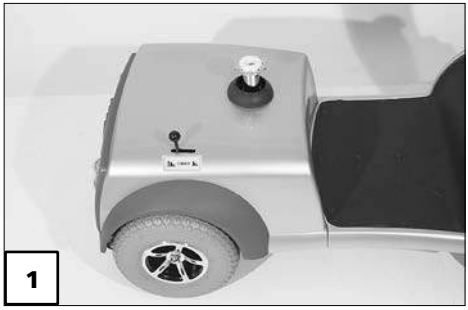
In order to remove the seat [1] press the lever at the side (2) upward

Attention:

! Grab sideways under the seat surface in order to lift the seat.

- Do not reach between the seat lever with the fingers while doing so.

  ☞ Danger of squashing the fingers!



Attaching the seat

In order to insert the seat [3] press the lever at the side (2) upward

Attention:

! Grab sideways under the seat surface in order to lift the seat.

- Do not reach between the seat lever with the fingers while doing so.

  ☞ Danger of squashing the fingers!

After inserting the seat, align it in driving direction and let the lever at the side (2) lock into place.

☞ **Note:**
Check the locking device of the seat.

Arm support

Attention:

! Do not lift or carry the seat using the arm supports.

Swivelling up the arm support

The arm supports can be swivelled up for an easier transfer to/from the seat [1].

Adjusting the height of the arm supports

The height of the arm supports can be steplessly adjusted after loosening the respective clamping screw (2).

☞ Maximally lift the arm supports upward up to the marker.

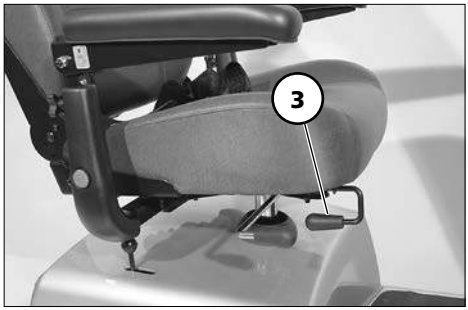
☞ After the height adjustment retighten the clamping screw (2).

Adjusting the distance seat to tiller

After activating the front locking lever (3) the distance of the seat from the steering column can be adjusted.

☞ After adjusting the distance of the seat let the locking lever snap into place again.

☞ **Note:**
Check the locking device of the seat.



Back support

The back support can be folded down onto the seat surface (1).

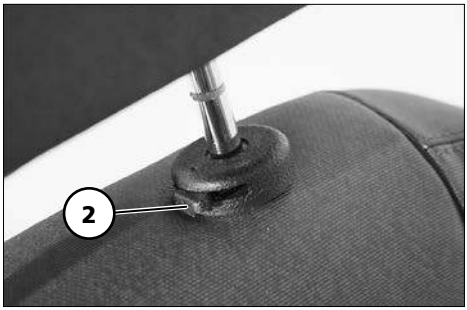
To raise the back support swivel it upward toward the back (2).

Adjusting the headrest height

After activating the locking spring (3) the height of the head support can be adjusted.

☞ After adjusting the height of the head support release the locking spring (3) and let the head support engage into the next possible position by sliding it up or down.

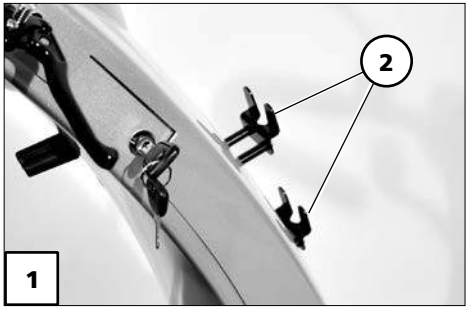
☞ **Note:**
Check the locking device.



Front basket

The front basket can be lifted off upwards (1).

For attachment the front basket is placed onto the two brackets (2)(3).



Support castors

The support castors (4) increase the stability against tipping over to the rear when crossing an obstacle or driving on a rising gradient.

Attention:

! Support castors do not provide sufficient protection against tipping over in certain situations.

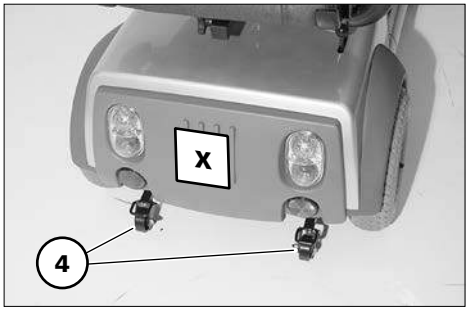
Insurance licence plate

Mount the insurance licence plate (if required) centred on the rear revetment onto the support struts (X).

☞ The licence plate can be used to mark the holes for drilling.

☞ **Note:**

☞ Assembly of the licence plate should be carried out by a specialist workshop.



Retaining strap

The retaining strap [1] serves to hold a person sitting inside the *SCOOTER* in place.

– Additional stabilisation of the sitting position.
– Prevents the user from slipping forwards out of the seat (e.g. during abrupt braking).

The retaining strap is screwed onto the bottom of the seat.

☞ **Note:**
The retrospective assembly of a retaining strap is only to be carried out by a specialist workshop!

Attention:
! The retaining strap is not part of the retaining system for the *SCOOTER* and/or the driver during transport in a handicapped transport vehicle.

Fastening the retaining strap

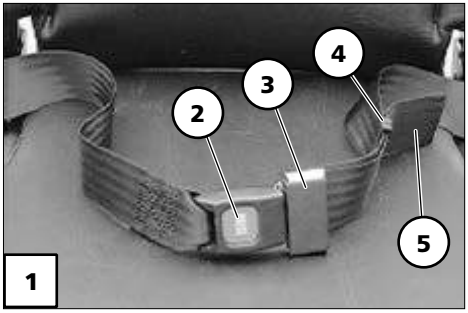
Pull both belt halves to the front and slide the catch halves together so that they latch together [1].

☞ Afterwards conduct a pulling test.

Attention:
! Make sure that no objects are trapped between belt and the body! – Thus you avoid painful pressure points.

Opening the retaining strap

To open the retaining strap press the red unlocking knob (2) inside the buckle.



Adjustment of belt length

☞ **Note:**
The retaining strap should not be pulled too tight.

Push or pull the strap (5) in the respective direction in order to extend or shorten the strap.

☞ Therefore hold the lock part or buckle (3) at a right angle to the strap.

Fasten excessive strap by repositioning the plastic slider (4).

MAINTENANCE

An incorrect or neglected cleaning and maintenance results in a limitation of the product liability.

Maintenance

The following maintenance schedule gives you a guide for carrying out the maintenance.

☞ They do not give information about the actual extent of work required on the vehicle.

Maintenance schedule

WHEN	WHAT	REMARK
Before starting out	**General** Test for faultless operation.	Carry out test yourself or with a helper.
	Checking the magnetic brake Switch the selection lever drive- / push mode to drive mode.	Carry out test yourself or with a helper. If the *SCOOTER* can be pushed, have the brakes repaired immediately by the specialist workshop. – Danger of accidents!
Especially before driving in the dark	**Lighting** Check the lighting equipment and reflectors for flawless functioning.	Carry out test yourself or with a helper.
Every 2 weeks (depending on distance covered)	**Check air pressure of the tyres** Tyre filling pressure: 2.5 bar = 36 psi	Carry out test yourself or with a helper. Use a tyre gauge.
	Adjustment screws Screws and nuts are to be checked for tight fit.	Carry out test yourself or with a helper. Retighten the loosened adjustment screws. Contact specialist workshop upon demand.

WHEN	WHAT	REMARK
Every 6-8 weeks (depending on distance covered)	**Wheel attachments** Wheel nuts or screws are to be checked for tight fit.	Do it yourself or with the aid of a helper. Securely tighten any loosened wheel nuts or screws and retighten again after 10 operating hours or resp. 50 km. Contact specialist workshop upon demand.
Every 2 months (depending on distance covered)	**Check tyre profile** Minimum tread = 1 mm	Carry out a visual check yourself or with a helper. If the tyre profile is worn down or if the tyre is damaged, consult a specialist workshop for repairs.
Every 6 months (depending on frequency of use)	**Check** – Cleanness. – General condition.	 See Care. See Repairs. Do it yourself or with the aid of a helper.
Manufacturer recommendation: **Every 12 months** (depending on frequency of use)	**Safety inspection** – Vehicle – Battery charger	To be carried out by the specialist dealer.

Tyre damage on pneumatic tyres

☞ For repairing tyre damage we recommend the use of a foam cartridge that is available in speciality shops. – Afterwards look up a specialist workshop as soon as possible.

Lighting

☞ **Note:**
If a turn-signal bulb is defective, the remaining one blinks at double frequency.

Replacing defective filament bulbs

Switch off the *SCOOTER* before replacing a defective bulb.

☞ **Note:**

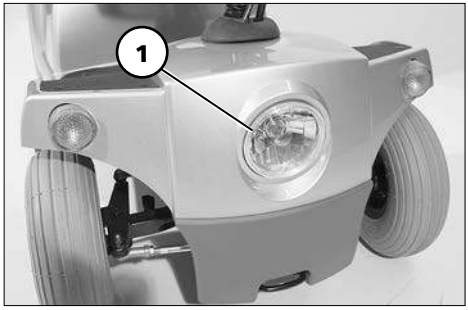
☞ Have a defective bulb in the front replaced in a specialist workshop.

☞ Hold onto the new bulb with a dry cloth.

Adjusting the headlights

The housing of the light (1) must be adjusted so that the light cone is visible on the driving surface.

– Adjust the headlights by tilting it so that the bottom edge of the light cone reached the ground about 3 meters in front of the vehicle.



Indicator light/front

Spherical bulb:
12 V / P21W BA 15s

Removal:

– Switch off the *SCOOTER*.

– Remove the turn signal with the defective bulb from the front revetment (2).
– Therefor loosen the attachment nut (1).

– Remove the dispersion disc with a slot screw driver (2).

– Press the defective bulb (4) slightly into the socket against the spring, turn clockwise (bayonet-catch) and pull it out of the lamp socket.

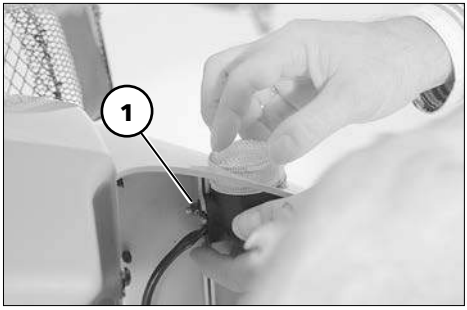
Mounting:

– Insert a new spherical bulb. – For this push the sideward pin (bayonet-catch) into the recess of the bulb holder, press and turn clockwise lightly against the spring until the bayonet-catch snaps into place (3).

– Press the aligned dispersion disc (5) onto the lamp (2).

– Insert the turn signal into the front revetment (2).
– Afterwards retighten the attachment nut (1)

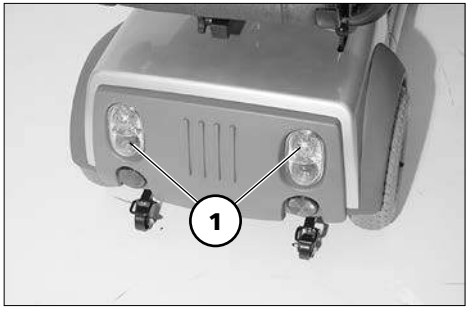
☞ Check the correct fit of the lamp socket.



Rear light

The rear and indicator lights (1) are equipped with long living LED-technology.

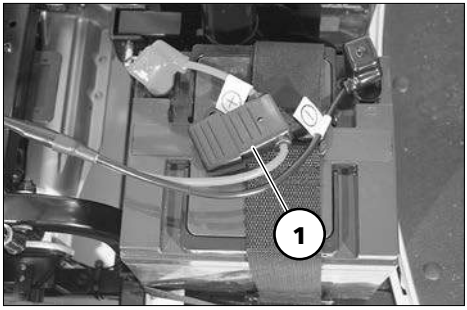
☞ **Note:**
In case of a failure we recommend to contact a specialist workshop.



Fuses/connections

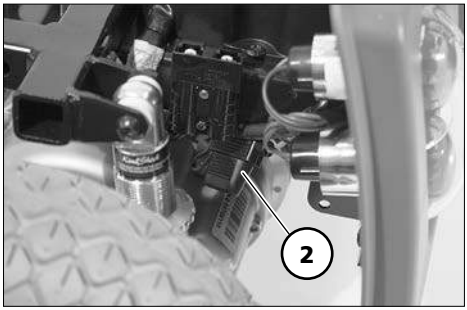
Mains-/battery fuses

The main-/battery fuses are located above the batteries in a fuse holder (1).



Charging and control fuse

The charging and control fuse is located on the left behind the drive in a fuse clamp (2).



Replace fuse

☞ **Note:**
Have a defective fuse replaced by a specialist workshop.

– Separate the plugs of the electrical connections.

☞ **Note:**
The plugged connections are secured by spring locks that have to be unlocked by pressing the upper ends together.

☞ To pull them off hold onto the connection plugs.
– Do not pull on the cables!

Always replace fuses with one of the same type!

☞ **Note:**
When the fuses blow again have the damage cause be repaired in a specialist workshop.

FAULT CORRECTION

Fault	Cause	Remedy
The display shows nothing after activation.	A main-/battery fuse is defect.	Insert a new charging fuse or have it repaired in a specialist workshop.
	Batteries deep discharged	Have it repaired by the specialist workshop.
The indicator gauge for operational readiness (status) blinks after activation.	The accelerator lever moved too early.	Switch the *SCOOTER* off and on again if this happens.
	The selection lever drive-/push mode is set to push mode.	Move the selection lever for the drive/ push mode into the drive mode position and make sure it clicks into place.
	Malfunction in the electronics.	Have it repaired by the specialist workshop.
Lighting not active or quick flashing of the turn signal control diode.	A light bulb is defect.	Replace defective filament bulb. Have it repaired by the specialist workshop if necessary.
The *SCOOTER* does not start off.	The drive mode has not been selected.	Turn the drive key to the drive mode position.
The battery charging procedure is not initiated.	The charging fuse is defective.	Insert a new charging fuse or have it repaired in a specialist workshop.

Information for the specialist dealer

A maintenance and service manual is available upon demand, in which you can for example find the following information:

1. Adjustments that can be carried out with tools.
2. Step by step explanations to important repairs.
3. Information on model specific amendments.
2. A checklist for the annual inspection.

The functional tests necessary for the inspection are listed in the check list.

They are a guide for the performance of the inspection work.

☞ **Note:**
It does not outline the actual scope of the necessary work which can only be ascertained by an inspection of the vehicle.

After the successful completion of an annual inspection the inspection certificate should be recorded in the operating manual.

A draft for further inspection certificates can be copied from the maintenance and service manual when required. It then has to be added to the operating manual.

Programming the driving behaviour

The driving behaviour of the *SCOOTER* can be adjusted through the programming device.

☞ Therefore observe the respective < Maintenance and service manual >.

The driving behaviour of the *SCOOTER* should be adjusted to the individual requirements and the learning process of the respective user at regular intervals.

☞ The programming must be specially tailored to the user. The capacity of reaction, the constitution as well as physical and psychical abilities are to be considered. A talk with the doctor or therapist can be very helpful.

Attention:
! Any change to the manufacturer set programming may result in an increased danger of accidents.

☞ Possible danger of tilting in curves.

TECHNICAL DATA

Kilometric performance

Kilometric performance depends to a large extent on the following factors:

- battery condition,
- weight of the driver,
- driving speed,
- driving style,
- road surface condition,
- driving conditions,
- ambient temperature.

The nominal values given by us are realistic under the following conditions:

- Ambient temperature of 27 °C.
- 100 % rated drive battery capacity as per the DIN standard.
- new condition of the drive batteries with more than 5 charging cycles.
- Nominal load of 75 kg.
- Without repeated acceleration.
- Level, firm driving surface.

The kilometric performance is greatly reduced by:

- frequent uphill driving,
- poor drive battery charge condition.
- low ambient temperature (e.g. in winter),
- frequent starting and stopping (e.g. in town traffic),
- aged, sulphated drive batteries,
- frequently necessary steering manoeuvres,
- reduced driving speed (especially at walking speed).

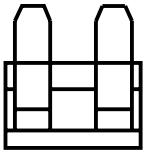
In practical use, the kilometric performance under 'normal conditions' is then reduced to approx. 80 % – 40 % of the nominal value.

Hill climbing ability

Gradients in excess of the permitted values (e.g. ramps) should for safety reasons only be driven when the wheelchair is empty!

Fuses

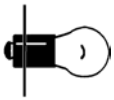
☞ Therefore observe chapter < *Fuses/connections* >.



Mains-/battery fuse: ..... 2 x 80 A

Charging/control system fuse:..... 10 A

Lighting



Headlight bulb: ..... Filament bulb 12 V / 15 W P26S

Front indicator:.....Filament bulb 12V/10W BA15s

Tools

The following tools are required to replace a turn signal bulb:

Phillips screwdriver ..... Size PH 1 / 2 resp. PZ 1 / 2

Model 2.364

All data within the following table relates to the standard version of the stated model.
Dimensional tolerance ± 1.5 cm, ± 2°.

Model:.....2.364 (4-wheel)
Type plate:..... at the seat brace
Class of use as per DIN EN 12184.....Class C
Life span: ..... 5 years
Sound level:..... < 70 dB(A)

Electrical system:

Drive control: ..... 24 V / max. 120 A
Lighting: ..... 12 V

Dimensions: ..... min. / max. / manufacturer setting

Length:.....1200 / ---- / ---- mm
General width: ..... 640 mm
Width (over arm supports):.....590 / 800 / 590 mm
Height:..... 1250 / 1310 / ---- mm

Seat height:.....45 / 52,5 / 45 cm

Seat (turnable 360°):

Seat depth:.....45 cm
Seat width: .....45 / 66 / 45 cm
Seat inclination: ..... 3°

Back support height:.....45 cm
Back support angle:.....-10°/ 10° / 90°
Back support to front edge of arm support:.....38 cm

Arm support height from upper edge of seat: .....14 / 22 / 14 cm
Arm support angle: ..... -5° / 5° / 0°

Wheels (pneumatic tyres):

Drive wheel (max. 3.0 bar = 43 psi):.....(4.10/3.50-5) ø 29 cm

Steering wheel (max. 2.0 bar = 29 psi):.....(4.10/3.50-5) ø 29 cm

Transport dimensions (without basket, without seat)**:**

Length:..... 1220 mm
Width: ..... 640 mm
Height (steering column folded-over): ..... 700 mm

Climatic data:

Ambient temperature: ..... -25 °C to +50 °C
Storage temperature: ..... -25 °C to +65 °C

Batteries:

Battery dimensions (L x W x H): ..... max. 21 x 17 x 18 cm

Sealed drive batteries: ..... 2 x 12 V 42,5 Ah – 5 h / 50 Ah – 20 h

Range (see Kilometric performance)**:**

50 Ah (20 h) with 6 km/h: ..... up to 40 km
50 Ah (20 h) with 12 km/h: ..... up to 35 km

Battery charger:

for batteries up to 50 Ah (20 h) .....24 V / 6 A

Performance - electric (view Kilometric performance):

Max. forward final speed: ..... 12 km/h
Motor–continuous power rating: ..... 400 Watt
Motor–peak capacity: ..... 1600 Watt

The following values indicated in brackets [ ] are valid for increased user weight of more than 130 kg up to 150 kg and are not within the norm EN 12184.

Performance - mechanical (view Kilometric performance):

Obstacle height upwards: ..... max. 100 mm [80 mm]
Max. obstacle height downwards (without support castors): ..... 100 mm
Ground clearance: ..... 120 mm
Climb-in height: ..... 190 mm

Turning radius: .....min. 1500 mm
turning area: .....min. 1800 mm

Technical hill-climbing ability with 75 kg user weight: ..... 15° (27 %)
Technical hill-climbing ability with max. 130 kg user weight: ..... 11.5° (20 %)

Max. permissible rising gradient: ..... 10° (18 %)
Max. permissible falling gradient: ..... 10° (18 %)
Max. permissible transverse gradient: ..... 10° (18 %)
Static tilting safety in all directions: ..... 15.5° (28 %)

Performance - mechanical in case of increased user weight from 130 kg to 150 kg:
The values are not within the norm EN 12184.

Technical hill-climbing ability with max. 150 kg user weight: .....[10° (18 %)]

max. permissible rising gradient: .....[8.5° (15 %)]
max. permissible falling gradient:.....[8.5° (15 %)]
max. permissible transverse gradient: .....[7° (12 %)]
Static tilting safety in all directions:.....[12° (22 %)]

Weights:

max. permissible total weight: ..... 260 kg
Permitted axle load front:.....80 kg
Permitted axle load rear: ..... 180 kg

max. permissible user weight: ..... 130 kg
max. increased user weight: ..... [150 kg]

Max. loading in front basket: .....8 kg

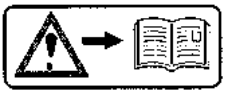
Empty weight:

with batteries:..... 107.0 kg
w/o batteries: ..... 77.0 kg

Weight of single component:

Front section (heaviest single component):..... 33.0 kg
Rear section (without batteries):..... 24.0 kg
Seat: .....18 kg
Batteries:.....2 x 15 kg
Rear cover:.....2.0 kg

Meaning of the labels on the *SCOOTER*



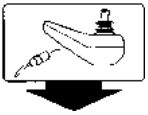
Attention!
Read the operating manuals and other provided documentation.

Do not lift the *SCOOTER* at the arm supports or leg supports. Removable parts are not suitable for carrying.

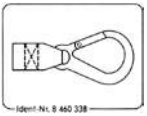
Drive mode

Push mode

Push only on level surfaces.



Indication for charging socket



Attachment possibility of the transport securing system.

Symbols

The arrow with the hand shows suitable areas to hold on to.

Meaning of the symbols on the type plate

Manufacturer

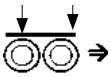
Order number

Serial number

Production date (Year – Calendar week)

Permitted user weight

Permitted total weight



Permitted axle loads

Permissible rising gradient

Permissible falling gradient

max. ... km/h Permitted final speed

The product is licensed as a seat inside a handicapped transport vehicle (HTV).

The product is **not** licensed as a seat inside a handicapped transport vehicle (HTV).

INSPECTION CERTIFICATE

Vehicle data:

Model:

Delivery note no.:

Serial-no.(SN):

Recommended safety inspection 1st year (at least every 12 months)

Stamp of specialist dealer:

Signature: _____

Place, date: _____

_____

Next safety inspection in 12 months

Date: _____

Recommended safety inspection 2nd year (at least every 12 months)

Stamp of specialist dealer:

Signature: _____

Place, date: _____

_____

Next safety inspection in 12 months

Date: _____

Recommended safety inspection 3rd year (at least every 12 months)

Stamp of specialist dealer:

Signature: _____

Place, date: _____

_____

Next safety inspection in 12 months

Date: _____

Recommended safety inspection 4th year (at least every 12 months)

Stamp of specialist dealer:

Signature: _____

Place, date: _____

_____

Next safety inspection in 12 months

Date: _____

Recommended safety inspection 5th year (at least every 12 months)

Stamp of specialist dealer:

Signature: _____

Place, date: _____

_____

Next safety inspection in 12 months

Date: _____

WARRANTY / GUARANTEE

We accept legal liability for this product within the scope of or general terms and conditions and warranty and the guarantee according to our described quality service. For warranty and guarantee demands please contact your specialist dealer with following Warranty/Guarantee section and the there included information on model description, delivery note number with delivery date and serial number (SN).

The serial number (SN) can be read off of the type plate.

Pre-condition for the acceptance of liability in any case is the intended use of the product, the use of original spare parts by specialist dealers as well as maintenance and inspections in regular intervals.

Guarantee is not granted for surface damages, tyres of the wheels, damages due to loosened screws or nuts as well as worn out attachment holes due to frequent assembly work.

Furthermore, damage to the drive and electronics caused by improper cleaning using steam cleaning equipment or the deliberate or accidental flooding of the components are also excluded.

Interferences through radiation sources such as mobile phones with high transmission power, HiFi-equipment and other extreme interference radiators outside of norm specifications cannot be declared as warranty or guarantee claims.

Attention:

! Failure to observe the instructions in the operating manual, improperly carried out maintenance work and, especially, technical changes and additions (add-ons) carried out without our prior consent will lead to a general loss of guarantee and product liability.

☞ **Note:**
This operating manual as a part of the product is to be handed out in case of a change of user or owner.

We reserve the right to make technical improvements.

CE The product conforms with the EC Directive 93/42/EEC (MDD) for medical products

Warrantee / Guarantee section

Please fill out! Copy if necessary and send the copy to the specialist dealer.

Warranty / Guarantee

Model designation:

Delivery note no.:

SN (view type plate)

Date of delivery:

Stamp of the specialist dealer:

Inspection certificate for transfer

Vehicle data:

Serial-no.(SN):

Model:

Delivery note no.:

Stamp of specialist dealer:

Signature: _____

Place, date: _____

_____

Next safety inspection in 12 months

Date: _____

Your specialist dealer

MEYRA GmbH

Meyra-Ring 2
D-32689 Kalletal-Kalldorf

Tel +49 5733 922 - 311
Fax +49 5733 922 - 9311

info@meyra.de

www.meyra.de

MEYRA 205 324 501 (status 2015-11) Subject to technical modifications. Original operating manual.