





MD 4 Plus

CE

With the **Days Healthcare Strider**, you have now purchased a product which has been manufactured in accordance with the newest technical capabilities and based on the highest operating comfort. We have placed great value on the simplest possible operation and long service life in both construction and material selection. A large variety of useful accessories rounds off our range in addition to the **Strider**.

This Operating Manual assumes that the suitability of the user for Strider usage has been discussed with a doctor, therapist and/or dealer before operation.

The operating manual will help you get to know the function of our Strider and, in addition, describes

- operation
- care and maintenance
- repair

The manual has been drawn up using information available at the time of printing with regard to construction and operation of the **Strider**. We reserve the right to make changes due to technical improvements.

If you have any other questions about this scooter please contact your retailer or supplier.



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# 1.0 Safety instructions

### 1.1 Symbols used

This instruction manual contains the following symbols which are used to highlight special hazards in dealing with the product or information for simplifying the handling.



#### Caution!

This symbol identifies safety information which notifies you of hazards when dealing with the product.



#### NOTE

You will also find information about dealing with the product under this symbol.

#### 1.2 Intended use

The **Days Healthcare** scooter is constructed for use both indoors and outdoors (Class B, European standard EN 12 184).

It is intended to increase the mobility of persons who are both physically and mentally capable of assessing any driving situations correctly and reacting correspondingly to them at any time.

The scooter is a class 3 invalid carriage and must be used by a person over 14 years of age. It has a maximum speed of less than 8 mph (13 kph) so it can be used on roads without a driving license, tax disk, ot MOT certificate. The scooter can also be used on pavemants when switched down to 4 mph (6.5 kph) but can not be used on motorways, cycle tracks or bus lanes (Road Traffic Act 1988).



#### 1.3 General Information

# Read the entire operating manual thoroughly before using the Strider!

Ensure that:

- the operating manual is read by all people who drive, care for and service the scooter.
- all persons who drive, care for, service or repair the scooter have access to the operating manual at any time.

Any damages resulting from nonobservance of this operating manual are excluded from the guarantee.



#### Risk of accidents!

- Do NOT use the scooter if your driving capability is impaired through consumption of medicine or alcohol.
- Only use the scooter for its correct intended use.
- Only use the scooter when it is in perfect working order.
- If any breakdowns occur, stop using the scooter immediately and secure it against unauthorised use.
- It is imperative that you always rectify any faults which could influence the function and safety of the scooter immediately.
- Observe maximum loading = see Specifications
- Only use accessories and spare parts authorised by Days Healthcare.
- The scooter is only authorised for transport of one person.
- Do not carry out any seat adjustments while driving.



# Tipping hazard!

- Do not adjust the seat if the scooter is standing on an incline.
- Do not lean out over the armrest to the sides or over the backrest to the rear.



# 1.4 Safety when driving



#### Risk of accidents!

- Check correct functioning of the brakes and lighting unit (indicators, headlights) before every journey.
- Always use lights when visibility is restricted, either by day or by night.
- · Check the tyre air pressure regularly.
- Always use the seat belts when driving.
- Do not switch the scooter off while driving.
- Do not drive up or down gradients which are too steep, over obstacles on gradients or up and down ramps.
   Observe maximum climb angle = see Specifications
- Only drive through restricted widths, around bends, inclines and ramps with reduced suitable speed.
- Only drive up or down inclines when the backrest has been adjusted to vertical.
- Don't drive too close to open waters.



### Tipping hazard!

- · Do not carry out any seat adjustments while driving.
- Only drive over obstacles and up kerbstones at the lowest point and at right angles.
- · Avoid sudden changes of direction and speed.
- Avoid steep gradients where there is a danger of skidding (ice, snow, wet surfaces etc.).
- Avoid loose surfaces whose characteristics you are not able to assess (woodlands, turf, beaches, gravel etc.)
- Always drive straight up and down gradients do not drive in zigzags.
- Do not turn around on inclines.
- Do not drive down steps.
- Do not drive backwards down gradients, stairs or kerbstones, or over obstacles.





# Danger due to unintentional movement!

- · Always turn the scooter off using the keyswitch if you:
  - want to get on or off
  - intend to stop for long periods
  - you are putting the scooter away.

# 1.5 Safety during transport, assembly and maintenance



If the scooter is transported in the vehicle when fully assembled:

- no persons may be sitting on the scooter during loading!
- no persons may be sitting on the scooter during transport!



# Clamping and crushing hazard!

Increased hazards due to clamping or crushing result due to the high component weight (such as batteries) during preparation for transport and maintenance work.

- Always carry out any work to be done with great care.
- Always try to get help from a second person, especially when stowing parts for transport.
- Only carry out any work described if you are used to working with the tools required.
- Only carry out work using suitable tools.



# Injury hazard due to improper assembly!

- Ensure that all components in the Scooter have been correctly assembled.
- After assembly, check that all locking devices are holding correctly.



#### Accident hazard due to incorrect bolted connections!

- If bolted connections have self-locking nuts, ensure that these are replaced when reassembling.
- Do not replace self-locking nuts with normal nuts.
- If bolted connections have lock washers, check lock washers when reassembling and replace if necessary.



# 1.6 Safety when handling batteries



#### Fire hazard!

- Do not cover the battery charger and ventilation slot while charging batteries.
- Only use the battery charger in well-ventilated rooms.



#### Risk of accidents!

- Only use the original battery charger (included in delivery).
- · Let your dealer replace your battery.
- Only use batteries as detailed in the chapter entitled "Specifications".
- Observe warning information given by the battery manufacturer.
- Batteries are extremely heavy.



# Burn hazard due to damaged batteries!

Batteries discharging acid can lead to serious burns.

- Do not touch damaged batteries with your bare hands. Use rubber gloves!
- If acid should contact your skin, wash the affected area immediately with plenty of water and contact a doctor.
- If acid should come in contact with your eyes, rinse them out immediately with lots of water and visit a doctor.
- Always change any clothing soiled with battery acid immediately.

# 1.7 Safety - information about electronics



## Accident hazard due to failures!

Radio, television, radio transmission devices and mobile phones produce electromagnetic fields. These can negatively influence the scooter electronics functions.

- Do not drive close to strong radio or television transmitters (transmitter masts).
- Switch the scooter off if you are using your mobile phone.



#### Failure in outside devices!

The Scooter produces an electromagnetic field which can have a negative influence on the function of any other electrical devices in the immediate surroundings (such as medical devices, radio receivers, cellular phones).

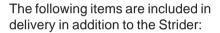


# 2.0 Extent of delivery

After receiving your Strider, please check the following:

- that the delivery is complete in accordance with the list below
- the delivery condition using the inspection plan (chapter 15.3)

If any faults are apparent or components are missing, please contact Days Healthcare or your medical supplier.

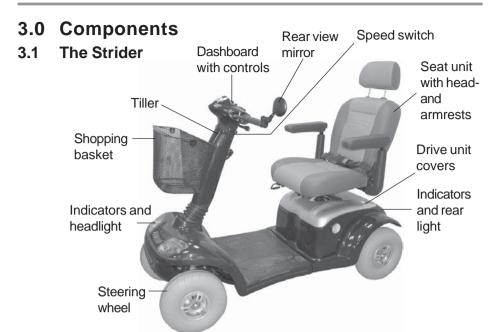


- 1. Shopping basket
- 2. Two vehicle keys for switching the Strider on
- 3. Battery Charger
- 4. Operating Manual

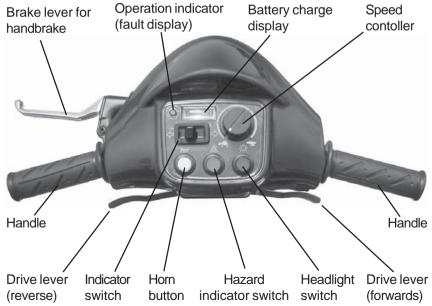








# 3.2 The dashboard - displays and controls





## 4.0 Brief instructions

The following brief instructions should enable people to quickly get used to operating the scooter after a long period of non-use and to refresh existing knowledge of operation.

It is imperative that you follow the instructions given in the main manual!

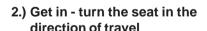
# 4.1 Driving the Strider



#### NOTE

Before starting driving, adjust the seat height, the backrest and the armrests to a comfortable position. Your specialist dealer would be very glad to help.

1.) Turn the seat to the outside.





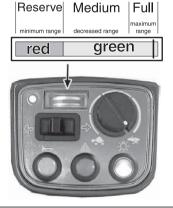
3.) Fasten the seat belt.



4.) Switch on the Strider



5.) Check the battery charging state



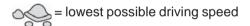
#### 6.) Adjusting the drive level

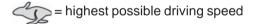
**H** = 12 kph (8 mph) maximum driving speed

L = 6.4 kph (4 mph) maximum driving speed



#### 7.) Set the maximum speed

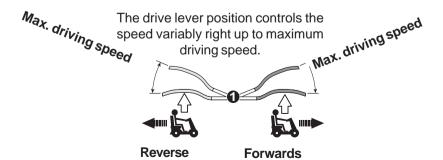






#### 8.) Driving

Operate the drive lever slowly until the required speed has been reached





9.) Braking = release drive lever (1)



10.) Direction indicators (1) Horn (2) Hazard lamps (3) Lights (4)

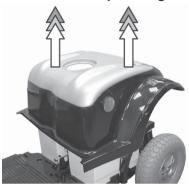


# 4.2 Transporting the Strider

Dismantling the Strider (stages 1 to 10)



# 2.) Remove the rear panelling



3.) Remove the lighting cable



4.) Separate the front connector



5.) Remove the battery plug



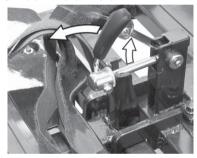
6.) Remove the battery belts and batteries



7.) Fold the tiller down



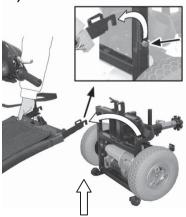
8.) Unlock the drive unit



9.) Tilt the drive unit away



10.) Remove the chassis



Reassembling the Strider (Stages 10 to 1)

# 5.0 Setting up the Strider

The following passage describes how to set up your Strider in order to ensure that you have a comfortable and safe drive.

# 5.1 Adjusting the seat height



#### NOTE!

The seat must be removed from the Strider in order to adjust the seat height. You should try to get help from a second person if possible or contact your dealer.

#### Removing the seat:

➡ Tilt the backrest forwards. First pull out the locking device (1) and then fold the backrest forward (2). Tilt the backrest forwards

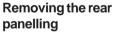
Removing the seat

➤ Lift the seat while pulling the seat lock (3) out of the seat support (4).



#### Removing the rear panelling:

Pull the rear panelling off the Strider upwards.







- ➤ Press the locking device on the plug and disconnect the electric cable connecting plug (5) to the rear lights and rear indicators.
- ➡ Remove the rear panelling.



#### Adjusting the seat height:

#### **Tools required:**

1 x Allen key (size 6 mm)

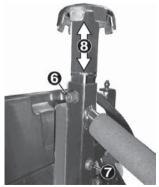




The seat height (h) is adjusted by using the holes in the seat support.

- → Loosen the upper clamping bolt (6).
- ➤ Loosen the lower clamping bolt (7) and pull the it out of the seat support (8).
- → Pull the seat support out as far as the required height until the correct hole appears in the seat tube hole.
- ► Push the lower clamping bolt (7) into the seat tube and tighten.
- → Tighten the upper clamping bolt (6).





#### Fixing the rear panelling:

→ Plug in the light and indicator cable connecting plug (5).

#### Connecting the light cable



➤ Place the rear panelling onto the drive unit from above.

While doing this:

- Introduce the engaging lever (a) into the appropriate hole.
- Engage the rear panelling onto the mountings (b) on the drive unit.
- Align the rear panelling to the strider chassis (c).

### Inserting the seat:

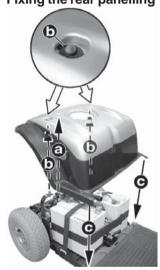
- ▶ Pull the seat lock (3) and guide the seat into the seat support (4) from above.
- ► Let go the seat lock and engage the rotational adjustment by turning the seat a little one way then the other.



#### NOTE

If after inserting the seat it is not possible to turn the seat or to pull the seatlock, the seat is not properly locked.

#### Fixing the rear panelling



# Inserting the seat





# Adjusting the seat position

#### Tilt the backrest backwards:

- Pull the locking lever (1) and move the backrest backwards to the required position (2).
- Let go of the locking lever and engage the locking mechanism by pushing the backrest slightly forwards and backwards.

# Tilt the backrest backwards



# 5.2 Adjusting the seat position

# 5.2.1 Adjusting the distance between seat and tiller

- ➤ Pull the locking lever (1) upwards and move the seat forwards or backwards to the required distance.
- ▶ Let go of locking lever and engage the locking mechanism by pushing the seat slightly forwards and backwards.





# Accident hazard due to non-engaged seat!

• Ensure that the seat is properly engaged after adjustment by pushing the seat slightly forwards and then backwards.

#### 5.2.2 Adjusting the armrest width

- → Loosen both clamping screws (2).
- ► Pull both armrests (3) simultaneously to the required width.
- Secure the armrests by tightening the clamping screws.



#### **CAUTION!**

 Do not pull the armrests further out than the marking (a) for maximum armrest width.

#### Adjusting armrest width







# Adjusting the seat position

#### 5.2.3 Adjusting the armrest height

#### **Tools required:**

1 x Allen key (size 5 mm)



► Loosen the Allen screw (4) and remove.



The armrest height is adjusted using four holes in the armrest support (b).

The height can be adjusted in stages of 10 mm.



- ➤ Pull the armrests upwards to the required height until the hole in the armrest support appears through the hole in the seat tube (5).
- ➡ Reinsert the Allen screw and tighten.



#### 5.2.4 Adjusting the backrest inclination

The backrest inclination can be adjusted in three locking stages.

1st stage = drive setting

2nd stage = drive setting

3rd stage = not for driving!



# Tipping hazard!

• Only adjust the seat adjustment to the third position when the vehicle is not travelling!

- ➤ Pull the locking lever (6) and move the backrest forwards or backwards to the required position (7).
- ► Let go of the locking lever and engage the locking mechanism by pushing the backrest slightly forwards and backwards





# Accident hazard if backrest is not properly engaged!

 Ensure that the backrest is properly engaged after adjustment by pushing it slightly forwards and then backwards.

# 5.3 Adjusting the headrest height

### Raising the headrest:

➤ Pull the headrest upwards into the required position (1) until the lowering protection engages audibly.

### Lowering the headrest:

- Press the locking lever (2) in and push the headrest down to the required position (3).
- Release the locking lever, and engage the lowering protection by moving the headrest slightly.

#### Adjusting the headrest

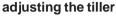




# 5.4 Adjusting the tiller angle

Always adjust the tiller so that you can reach all displays and controls easily at any time. The tiller can be variably adjusted.

- **▶** Push or pull the locking lever (1).
- ▶ Push the tiller forwards or backwards into the required position.
- Release the locking lever.
- ➡ Ensure that the tiller is engaged correctly by moving it backwards and forwards.







# Accident hazard due to non-engaged tiller!

 Ensure that the tiller is properly engaged after adjustment by pushing it slightly forwards and then backwards.



# 6.0 Information about safe Strider driving



Always carry out the safety information described in chapter 1.5 "Safety during driving"!

Driving the Strider is very simple and after a few practice sessions you will find it very easy.

The following information should help you to drive safely through traffic:

- always match your speed to the driving situation in which you find yourself.
- always reduce the speed when you are driving through:
  - unclear areas
  - narrow gaps
  - tight curves
  - inclines
  - ramps
- take a trial run with the Strider in an area with no pedestrians, or in a closed-off area
- always steer the Strider using both hands on the handlebars
- always keep your feet in the foot area while driving the Strider

# 6.1 Driving up inclines and down slopes

The Strider can climb up inclines of up to 10° without danger.

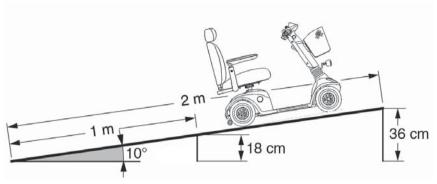
#### Please note:

The maximum safe incline has been determined in accordance with the EN standards. The scooter is able, under the maximum specified load, to start, brake and turn.

It is possible to negotiate some steeper inclines however we do not advise you to do so.

The overload protection device could trip due to a combination of, incline driving duration, steepness of the incline and load applied to the vehicle.





#### Climb angle examples:

a 1 metre long ramp should not be higher than 18 cm a 2 metre long ramp should not be higher than 36 cm

 Avoid driving across an incline (always try to drive in the direction of the incline / decline).

There is an increased **danger of tipping** when climbing or descending gradients if:

- the Strider is loaded at the back and additionally
- the backrest (captain's seat) is leant towards the back and
- the seat has been adjusted to its rear position.



You can achieve increased tipping safety if:

- you adjust the seat in a more forward position.
- you adjust the backrest (captain's seat) to be vertical
- you lean your upper body slightly forwards (see sketch)





# 6.2 Overcoming obstacles

The Strider can climb over obstacles such as kerbstones up to height of **8 cm** without any problem.

Please observe the following points to make sure that your Strider doesn't tip over while climbing obstacles:

don't try to drive over obstacles which are too high

example: kerbstones

remedy: always climb up kerbstones

at lowered entry areas such as driveways

- DO NOT try to climb an obstacle when on an incline
- approach the obstacle at a right angle
- try to clear the obstacle in one go
- DO NOT drive over the obstacle with just one wheel
- DO NOT drive backwards over an obstacle



• DO NOT drive down stairs or steps



















### 6.2.1 Driving Information - Overcoming kerbs



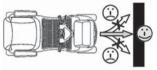
#### **Risk of accidents!**

Neogating kerbs needs some practice.

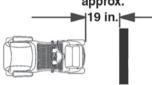
- Please observe the maximum obstacle heights of 8 cm.
- Please start practicing kerb climbing with small kerbs.

→ Approach the kerb at a right angle.

# Approach at a right angle



 Stop approximately 0.5 Meter / 19 inches in front of the kerb. Stop in front of the kerb approx.



 Adjust the speed controller to maximum speed.



 Press the drive lever fully forward and try to clear the kerb in one go.
 The speed of the scooter should only be at 1 mph when the front wheel hit the kerb.

➤ Keep the drive lever on fully forwards position until the rear wheels have cleared the kerb.

#### Overcome kerb





# 6.3 Overload protection - motor protection

The overload protection system switches the drive off if the motor becomes overloaded by trying to climb over too high an obstacle such as a kerbstone, or if you try to climb to steep an incline. Should the overload protection system activate, the motor or power module has overheated. This can be caused by driving up long inclines with high load and/or under high environmental temperatures. Activation of the overload protection trip should be seen as a warning to inform users not to continue driving under present conditions. If activation occurs on an incline, then the incline is either too steep or the duration of driving on the incline is too long. Continued driving on such an incline should not be continued - even if the overload protection device allows you to do so. The motor could become dammaged by such sustained excessive temperatures.

#### If the motor is overloaded, the following happens:

- the Strider becomes noticeably slower and then stops
- · the control system switches the Strider off

#### To rectify this:

- ➤ Switch the scooter off and allow it to cool down for a few minutes.
- ➡ Switch the scooter on again and ...
  - ... reverse away from the **obstacle** (such as kerbstone) and then try again at a lower point.
  - ... be careful turning the scooter round on inclines, and always reverse away very slowly.



### Tipping hazard!

There is an increased tipping hazard if the incline is very steep.

 Try to get help from a second person when turning your scooter round.



# Accident hazard in push mode!

If the incline is too steep, there is a danger that you will not be able to hold onto the scooter and that it will roll down the incline uncontrolled.

 Try to get help from a second person when turning your scooter round.



# 6.4 Battery charging state = driving range

#### 6.4.1 Battery charging state

#### Battery charge display:

The battery charger display on the dashboard shows the battery charging state.

Full = maximum range

**Medium** = decreased driving range, charge batteries after journey

Reserve = minimum driving range, end

journey as soon as possible,

charge batteries



### Display ranges

red green				
minimum range	decreased range	maximum range		
Reserve	Medium	Full		

#### Important information about reading the battery charge display:

- If the scooter is at standstill, it is often the case that the battery charging state is shown higher than it actually is.
- The display can vary greatly while the vehicle is travelling (depending on load).
- If the vehicle is under heavier loading (for example heavy acceleration, driving up hills), the pointer can sometimes go to the red area of the display. This is not critical and does not indicate the <u>actual</u> <u>charging state</u> of the batteries.
- If the pointer has gone into the red area of the display after the journey, it will often show green after the Strider has been turned off for a long period.

This does not indicate the <u>actual charging state</u> of the batteries! If the pointer is in the red area of the display at the end of the journey, the batteries must be charged before continuing the journey. Disregarding this can lead to destruction of the batteries!

### Determining the actual charging state:

Drive at a constant speed for about 200 m along a straight level route. The value shown by the display during the journey is the actual battery charging state.



#### 6.4.2 Driving range

The Strider driving range is dependent on the following conditions in addition to battery charge:

- landscape conditions (level or steep)
- weight of user
- weather conditions (cold, rain)
- driving with headlights

For this reason, information about the driving range is only given as a guideline. The more experienced you are in using the Strider, the easier it will be for you to determine the driving range using the battery charging state.

#### You will be able to achieve the best possible driving range if you:

- ensure that the tyres are inflated correctly
- · avoid steep inclines as much as possible
- do not carry any unnecessary luggage
- · drive at an even speed
- · do not accelerate or brake unnecessarily

#### The driving range will be decreased if you:

- · drive with headlights
- · drive in cold weather
- · drive in hilly regions



#### **NOTE**

Please see the information about batteries in the Appendix.

#### 6.4.3 Overdischarge protection - battery protection

In order to protect the batteries from over-discharging, the control unit switches the Strider off. This takes place when the battery voltage falls below 17 Volts.

#### Display:

the battery charger display pointer is pointing to the left at the end of the red area.

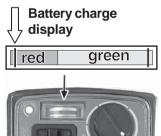
### To rectify this:

- You must not drive the Strider any longer!
- Connect the Strider to the battery charger. Charge the batteries for at least 12 hours.



#### NOTE

If the battery voltage falls below 16 Volts, the batteries can no longer be charged with the battery charger supplied. In this case you must contact your dealer.







# 7.0 Driving the Strider

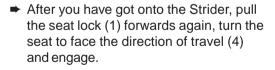
## 7.1 Getting on and off

#### Please observe the following before getting on or off:

- The Strider must be standing on firm, level and non-slippery ground.
- The engaging lever for push mode must be in the drive position (see chapt. 9.0).
- Turn the Strider off and remove the key.
- Tilt the steering column forwards (see chapt. 5.4.).
- When getting in and out, ensure that your clothing does not get caught on the drive lever.

#### Getting on or off:

- Pull the turning lock (1) on the seat forwards.
- → Turn the seat 90° towards you (2) and engage.
- Press the red unlocking button (3) to open the seatbelt lock.





# Accident hazard due to non-engaged seat!

 Ensure that the seat is properly engaged after getting on by turning the seat slightly left and right.



Opening the seat belt









#### NOTE!

If you feel you are safe enough, you can of course get onto the Strider without turning the seat round.

 You can lift up the armrest on the side where you are standing and then get on.



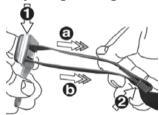
# 7.2 Seat belt - adjusting for length and putting on

#### Adjusting for length:

- → Turn the seatbelt closer (1) at right angles to the seat belt.
  - Adjust the length by pulling the appropriate belt side.
  - (a) = shortening the belt length
  - (b) = lengthening the belt length

Tension the loose seatbelt end by pulling the belt holder (2).

# Adjusting for length



### Closing the seatbelt:

Press the closer (1) into the lock until it audibly engages.

## Closing the seatbelt





## 7.3 Turning the seat

The seat can be turned to both sides of the angle, and firmly engaged in 8 positions (each position turns 45°).

#### Turning the seat:

Pull the turning lock (1), turn the seat in the required direction or position (2) and engage.



# Accident hazard due to incorrect seat position!

 Always turn the seat to face forwards and engage it before driving.

If the seat has been turned, the possibility of tipping is increased.

 Before turning the seat, always ensure that the scooter is on an even and solid surface.



# 7.4 Switching the strider on

The switch (1) is located to the right of the tiller.

► Insert the key into the switch and turn it to the right to switch the Strider on.

#### Switching the Strider on



## Operation indicator



#### 7.4.1 Operation indicator and fault display

#### Operation indicator on =

the Strider is switched on and ready for driving.

#### Operation indicator blinking =

error in the electronics and electrical system.

You can find more information in the chapter entitled "Troubleshooting".



# 7.5 Adjusting the speed



#### NOTE

Use the adjustment facilities to adjust the speed to suit local conditions.

Select a lower speed if you are driving through narrow gaps, on inclines or through crowds.

#### 7.5.1 Preselecting the drive level

You can use the drive level selection switch to set the maximum driving speed.

#### **Drive levels:**

**H** = 12 kph (8 mph) maximum driving speed **L** = 6 kph (4 mph) maximum driving speed

Move the toggle switch to setting H or L to adjust the required maximum driving speed.

#### Selecting the drive level



#### 7.5.2 Adjusting the speed

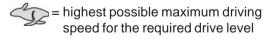
Your maximum driving speed can be variably adjusted using the speed controller.

Maximum driving speed = drive lever pressed as far as stop

#### **Controller symbols:**



= lowest possible maximum driving speed for the required drive level



Adjust the required maximum driving speed by turning the speed controller.

#### Speed controller





# 7.6 Before driving

#### Checks before driving:

•	Is the light working?	Switch on to test!	✓ in working order!

Are the indicators working? Switch on to test! ✓ in working order!

Are the batteries charged? Check the display! 
✓ in working order!

 Are the brakes working? To check, drive slowly and stop again! ✓ in working order!

Are the tyres and wheels
 undamaged and is the
 air pressure correct?
 Visual check of tyres
 and wheels!
 ✓ in working order!



# Only start driving if everything is in working order! Get defects repaired immediately.

# 7.7 Driving

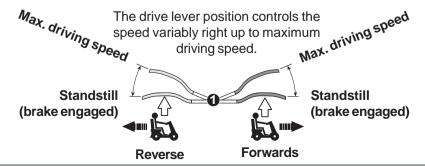
➡ Hold the tiller firmly in both hands.

Press the drive lever (1) in the direction of travel until the required speed has been reached.











#### 7.8 Brakes

#### 7.8.1 Using the motor brake

➡ Let go of the drive lever (1).

The drive lever stops in the central position

- the Strider uses the motor to brake.







## Emergency braking = let go of the drive lever!

The drive lever automatically returns to the central position if you let go. The Strider automatically brakes using the motor.

#### 7.8.2 Using the handbrake

➤ To use the handbrake, pull the brake lever (2) slowly towards the handlebar.



## **Tipping hazard!**

Pulling the brake lever too violently can cause the Strider to tip over.

 Pull the brake lever slowly in order to brake the Strider.

#### Handbrake



#### 7.9 Indicating

## Toggle switch (3):

- ⇒ indicate right = toggle switch to the right
- → indicate left = toggle switch to the left
- ➤ When turning is completed, press the switch (3) to switch the indicators off.

# Indicators LEFT OFF RIGHT



# 7.10 Switching on the headlights Pressure switch (4):

- ⇒ switch on = press switch once
- switch off = press switch again The switch indicator lamps shows whether the headlight is switched on or not.



#### NOTE

If you drive with the headlights on, the Strider driving range will be considerably reduced.

# Switching on the headlights



## 7.11 Using the horn

Press the horn button (5).
It will sound for as long as you hold the button down.

#### Using the horn



# 7.12 Switching off / parking the Strider

➤ Turn the key to the left to switch the Strider off.

Always turn the Strider off using the keyswitch (1) if you:

- want to get on or off.
- intend to stop for long periods.

Always remove the key from the keyswitch if you:

• want to park the Strider and get off.

## Switching the Strider off





# 8.0 Hazard lamps

#### Pressure switch (6):

- ⇒ switch on = press switch once
- switch off = press switch again The switch indicator lamps shows whether the hazard lamps are switched on or not.



#### NOTE

 Leaving the Strider with the hazard lamps on uses up the battery.
 The driving range will be reduced!

# Switching on the hazard lamps



# 9.0 Pushing the Strider

In order to be able to push the Strider, you must disengage the drive motor.

The disengaging lever (1) is located on the right-hand side of the Strider.

No one is permitted to sit on the Strider when it is being pushed.



- Switch off the Strider.
- → Pull the engaging lever (1) upwards as far as the stop (limit position).



→ Push the engaging lever (1) downwards as far as the stop (limit position).



#### **NOTES**

- Always switch the Strider off to push it.
- If a pre-set speed is exceeded while you are pushing the Strider, the drive motor will switch on automatically and brake the Strider.



#### **Risk of accidents!**

- Do not pull the disengaging lever while driving.
- Never switch the Strider to push mode when somebody is sitting on it.
- The engaging lever always needs to engage securely at the limit position.

O



• Do not disengage the motor when on an incline.

# 10.0 Attaching the shopping basket

Push the shopping basket (1) from above into the basket holder receptacles (2) on the tiller.



#### NOTE

Use the shopping basket only for small loading.







# 11.0 Charging the batteries

Please also see the information given in the chapter entitled "Things to know".

#### Charging information:

- The surrounding temperature should be between 10° and 30° Celsius.
   The charging time will increase at lower temperatures.
- Only use the original battery charger (included in delivery).
- Only use the battery charger in a dry and well-ventilated room.
- Do not cover the battery charger and ventilation slot while charging batteries
- The battery charger has an automatic switch-off device which prevents overcharging the batteries. Do not leave the battery charger connected to the scooter for more than 24 hours.
  - The batteries can be charged overnight.
- Switch the Strider off before charging the batteries.

#### When is charging required?

- the battery charge display is in the red area
- after the final journey of the day
- at least once per week

#### **Charging times:**

Between 8 and 14 hours depending on current battery charge state.



#### **NOTE**

The battery charger is designed to be able to charge completely discharged batteries within eight hours to 80% of their capacity.

# 11.1 Preparing the battery charger

Plug the mains cable plug (1) into the jack socket (2) on the battery charger.

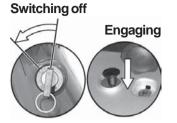
#### Connect the mains cable





#### 11.2 Charging the batteries

- Switch the Strider off.
- Engage the engaging lever for push mode into the "drive" position.



It is imperative that you observe the sequence for connecting and disconnecting the battery charger.

The jack socket (3) for connecting the battery charger is located on the left of the tiller

→ (1.) Connect the battery charger plug (4) to the Strider charging socket.

(2.) Connect the battery charger mains plug (5) to a mains socket and switch on.

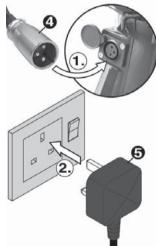


#### NOTE

The battery charger switches on automatically when connected to the mains.

➤ Switch the battery charger on at the toggle switch (6).











#### LED information at battery charger during charging:

#### LED -> Colour -> Meaning

- -> Red -> battery charger (a) switched on
- (b) -> Yellow -> charging in progress
  - -> Green -> charging complete, battery completely charged



# 11.3 After charging

Switch the battery charger off at the toggle switch (6).



⇒ (1.) Switch off and Remove the battery charger plug from the mains socket.



⇒ (2.) Pull the battery charger jackplug out of the Strider jack socket.





# 12.0 Things to know

## 12.1 The battery charger - functioning principle

The battery charger regulates the voltage (Volt) and the current (Ampere) from your mains connection down to the voltage required for charging your batteries (24 Volt).

The amount of charging current required is dependent on the charging state of the discharged batteries.

Batteries mostly discharged = more charging current

Batteries half discharged = decreased charging current

Batteries fully charged = current to keep up battery charging

When the batteries are full, only the current required for battery charging flows, which means that battery overcharging is prevented.

#### 12.2 The batteries

The entire power supply is taken over by two 12 V batteries. These are located below the motor cover under the seat. The batteries used in the Strider are known as batteries for cyclic use. Only enclosed maintenance-free batteries are used.

#### **Batteries**



#### 12.2.1 What are batteries for cyclic use?

Batteries for cyclic use are designed, in contrast to starter batteries as used in cars, so that they deliver continuously energy over a longer period of time and allow a considerable number of charging phases.

#### 12.2.2 When do the batteries achieve their maximum performance?

Fixed cycle batteries achieved a maximum performance after four or five charging and discharging cycles. Only at this point is their internal chemical equilibrium achieved so that they can produce maximum performance and service life.

#### 12.2.3 How do I make sure the batteries achieve their best service life?

- · Always charge your batteries completely after use.
- · Charge your batteries regularly.
- Only store completely charged batteries in the vehicle.



#### 12.3 The auto switch-off

The auto switch-off automatically switches the Strider off after 20 minutes at a standstill.

This protects the batteries from being discharged if the Strider was inadvertently not switched off.

#### 12.4 The drive unit

The complete drive unit is located in the rear of the Strider and consists of the following main components:

- the drive (1)
- the control unit (2) and
- the batteries (3)



#### **NOTE**

The control unit and its cabling is protected by a shroud (2).

#### **Drive unit**



#### 12.5 The drive

The drive consists of the drive motor (a), the gearbox (b) and the rear axle (c). Drive takes place from the drive motor via the gearbox and rear axle to the rear wheels.



#### 12.6 The control unit

The control unit is a programmable electronic regulating unit. It regulates drive characteristics such as acceleration, maximum speed and braking behaviour. The drive characteristics can be set to match the user's requirements by altering the programming.

Reprogramming may only be carried out by

Reprogramming may only be carried out by specialist dealers.

# 12.7 Lighting

The lighting is composed of two groups: a front headlight and direction indicator (4) and the rear light and direction indicator (5).

#### Lighting



#### 12.8 Anti tipping wheels

The anti tipping wheels reduce the danger of tipping during extreme manoeuvres when fixed to the rear of the Strider. It is not permitted to drive the Strider without anti tipping wheels.

#### Anti tipping wheels



#### 12.9 Wheels and tyres

The Strider is fitted with inner tubes and tyres of size 4.0-5.

#### Wheels and tyres





#### 12.10 Brakes on the strider

#### 12.10.1 The motor brake

The Strider is automatically braked if the drive lever (1) is in the central position. To apply the brakes, simply let go the drive lever which is then returned to its central position by a spring.

The Strider is then braked by the drive motor. When the Strider is at a standstill or has been switched off, it is braked by a magnetic brake.

#### **Drive lever**



#### 12.10.2 The handbrake

The Strider is fitted with an additional brake in the handbrake (2) which can be used for braking when being pushed or emergency situation.

The brake lever is mounted on the tiller near the handlebars and uses a cable to actuate the brake drums on the front wheels.

Handbrake lever



## 12.11 Driving licence

Not required!

#### 12.12 Insurance

As a scooter user you must be aware of the risks involved to both yourself and others. It is recommended that you take out third party insurance to cover you against any possible claims. Advice and policies are available from insurance companies or alternatively ask your scooter supplier for details.

# 13.0 Transporting the strider

# 13.1 Transport information

Depending on the size of the transport vehicle, the Strider can be dismantled in a few steps so that it can also be easily transported in smaller vehicles.

When transporting, take particular care to ensure that the batteries are securely fastened and make sure components cannot tip over.

No liability can be accepted for damage caused by transportation.

## 13.2 Transporting the complete strider



No persons are permitted to sit on the scooter during loading!

No persons are permitted to sit on the scooter during transport!

- ➡ Drive or push the Strider up a ramp into the vehicle.
- ⇒ Switch the engaging lever to drive mode.
- Secure the Strider against tipping over by fastening it to the transport vehicle with transport straps.



#### **Risk of accidents!**

Accident hazard is increased when loading the Strider partly due to high weight.

- Only use loading ramps equipped to take the weight.
- You should seek help from a second person.



# 13.3 Preparation for transport - separating component



## Clamping and crushing hazard!

Increased hazards due to clamping or crushing result due to the high component weight (such as batteries) during preparation for transport.

- Always carry out any work to be done with great care.
- Always try to get help from a second person, especially when stowing parts for transport.

In just a few steps you can dismantle the Strider down to the following components to make it ready for transport:

- 1. Chassis
- 2. Batteries
- 3. Drive unit
- 4. Rear panelling
- 5. Seat unit



#### 13.3.1 Working step summary

- 1. Remove the seat unit.
- 2. Remove the rear panelling.
- Remove the batteries.
- 4. Fold the tiller down.
- 5. Disengage the drive unit from the chassis.

#### 13.3.2 Removing the seat

➡ Tilt the backrest forwards. First pull out the locking device (1) and then fold the backrest forward (2).





➤ Lift the seat while pulling the seat lock (3) out of the seat support (4).



#### 13.3.3 Removing the rear panelling

Pull the rear panelling off the Strider upwards.

# Removing the rear panelling



- ▶ Press the locking device (A) on the plug and disconnect the electric cable connecting plug (5) to the rear lights and rear indicators.
- ➡ Remove the rear panelling.





# **Transporting the Strider**

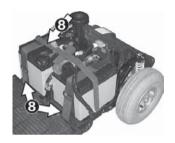
#### 13.3.4 Removing the batteries

▶ Press the locking device on the plug and disconnect the connecting plugs (6 + 7) on the battery cable.

#### Removing the batteries



- Remove the battery belts (8).
- Remove the batteries.



#### 13.3.5 Folding the tiller down

→ Push or pull the locking lever (9) and fold the tiller to the rear (10) until it is horizontal.

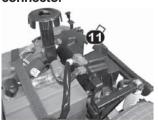
#### Folding the tiller down



# 13.3.6 Disengaging the drive unit from the chassis

 Separate the front unit connecting plug (11).

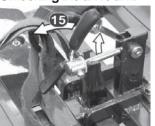
# Separating the front connector





→ Open the clamping bolt clamping lever (15) and fold the clamping bolt upwards.

# Unlocking the drive unit



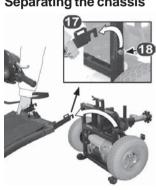
Tilt drive unit to the rear onto the anti tipp wheels (16).

Tilt the drive unit away



⇒ Remove the frames (11) upwards from the holding bolts (12) on the drive unit.

#### Separating the chassis





#### **NOTE**

Use rear bumper as grip to stowe the drive unit.





## 13.4 After Transport - Reassembly

#### Working step summary:

- ➡ Re-couple the drive unit.
- Fold the tiller up again.
- ➡ Insert the batteries and secure with the straps.
- Fit the rear panelling in place.
- ➡ Fit the seat



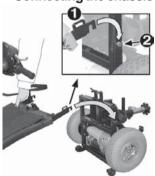
#### **NOTE**

- All cable connection plugs can only be reconnected in one position (anti-rotation protection).
- When re-connecting the plugs, ensure that the locking device engages correctly.

#### 13.4.1 Engaging the drive unit to the chassis

➤ Locate the frames (1) over the drive unit holding bolts (2).

#### Connecting the chassis



Fold the drive unit forwards (3).



# Clamping and crushing hazard!

Pay particular attention to hazards caused by trapping and crushing while carrying out this work.

#### Folding the drive unit in



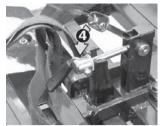


# Transporting the Strider



#### NOTE

The clamping bolts fit automatically into the chassis receptacle (4). If this is not the case, the clamping bolts will have to be adjusted. You can find information about adjustment in the chapter 17.3.1.



➡ Close the clamping lever (5) on the clamping bolt down.



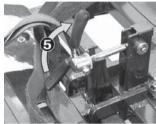
#### NOTE

The clamping tightness should be set so that the clamping lever can be closed by hand without requiring too much force.

You can find information about adjusting the clamping tightness in the chapter 17.3.1.



# Locking the drive unit

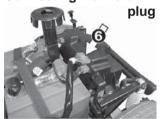




## Accident hazard if clamping bolts are not locked!

- Before repositioning the rear panelling, ensure that the clamping bolts are correctly fixed
- Reconnect the front unit connecting plug (6).

# Connecting the motor



## 13.4.2 Folding the tiller up

→ Pull the locking lever (7) and fold the tiller forwards (8).

#### Folding the tiller up



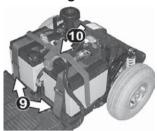


# **Transporting the Strider**

#### 13.4.3 Reinserting the batteries

- ➡ Place the batteries in the frame so that the battery terminal is facing inwards.
- ➡ Route the safety straps (9 + 10) across the batteries as illustrated in the photograph and tighten.

#### Reinserting the batteries



➡ Plug in the battery cable connecting plugs (11).



#### 13.4.4 Fixing the rear panelling

Plug in the light and indicator cable connecting plug (12).

#### Connecting the light cable



➡ Place the rear panelling onto the drive unit from above.

#### While doing this:

- Introduce the engaging lever (a) into the appropriate hole.
- Engage the rear panelling onto the mountings (b) on the drive unit.
- Align the rear panelling to the strider chassis (c).

# Fixing the rear panelling



#### 13.4.5 Fitting the seat

- → Pull the seat lock (14) and guide the seat into the seat support (15) from above.
- Let go the seat lock and engage the rotational adjustment by turning the seat one way then the other.



#### NOTE

If after inserting the seat it is not possible to turn the seat or to pull the seatlock, the seat is not properly locked.

#### Fitting the seat





# 14.0 Cleaning



#### NOTE

- Do not use any sharp-edged tools such as knives, metal scrapers or aggressive solvents for cleaning.
- Do not use high-pressure cleaners to clean the vehicle.
- Only use mild detergents without scouring agents to clean any surfaces.
- Please observe instructions for use on the detergents to avoid damage to the component surfaces.
- Never direct water jets onto the fittings on the tiller or drive unit components.
- Light soiling or dust is best removed using soft cloths.
- Heavy soiling can best be removed with damp cloths and slightly soapy water.
  - Use a dry cloth to dry the scooter off after cleaning!
- All lacquered surfaces can be cleaned and preserved using car polish.



# 15.0 Maintenance and Inspection

If you find any faults on your scooter during maintenance which are not covered by the repair information, please contact your dealer.

Always remove faulty scooters from operation and secure them against unauthorised use (remove key).

# 15.1 Daily maintenance before start of journey

- ➤ Check the brakes by driving slowly and then braking.
- Check that the lights and indicators are functioning correctly.
- Make a visual check of wheels and tyres for damage and loss of pressure.

## 15.2 Weekly inspections / tyre pressure

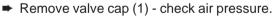


# Danger of injury due to overpressurised tyres!

The tyres will burst if inflated with too much air pressure

• Never inflate the tyres over the specified pressure.

Only use calibrated instruments to measure the air pressure in the tyres (such as are available at filling stations).



Screw the valve cap back on.





# 15.3 Annual inspection - inspection timetable

Take your scooter once per year to your dealer for an inspection. He will have the necessary tools and experience to service your scooter correctly.

Description (Component / inspection for)			Assessment OK Defective	
Component : Seat				
Headrest /	no damage fixed securely can be easily adjusted		000	
Seatbelt /	no damage fixed securely can be easily adjusted closed securely			
Armrest padding / no	damage, fixed securely			
Armrest, folding mechanism / no play in joint functions easily				
Armrests, width adjustment / no damage functions easily				
Backrest upholstery	/ no damage fixed securely	0		
Backrest adjustment / no play in joint functions easily				
Seat upholstery /	no damage	┚		
	fixed securely	□		
Seat and back frames / no damage				
Seat support - chassis connection / no damage, no play in connection				

# Strider MD 4 Plus

# Maintenance and inspection

Description (Component / inspection for)			Assessment OK Defective	
Component : Tiller	Component : Tiller			
Panelling /	no damage			
	fixed securely			
Grip rubbers /	no damage			
	fixed securely			
Tiller, folding mechan	nism / no play in joint			
	functions easily			
Component : chassis				
Connections /	no damage			
Frames /	no damage			
	no corrosion			
Reflectors / no damage				
Steering mechanism	Steering mechanism / no damage			
	no play in joint			
	functions easily			
Wheels /	no damage			
	fixed securely			
Tyres /	no damage			
	tyre pressure,			
Antitipper wheels /	no damage			
	rollers turn easily			



Issued: 28.02.2005

# Maintenance and inspection

Description (Component / inspection for)			<b>ssment</b> Defective
Component: Handbrake			
Handbrake / all compo	onents no damage		
safe func	tion		
equal adj	usted both sides		
easy mov	vement bowdencable		
Component : Displays electronic system	and controls, electric system,		
Dashboard switches /	no damage		
	safe function		
Dashboard displays /	no damage		
	safe function		
Indicator lamps /	no damage		
safe function			
Charger jack socket / no damage			
Batteries /	no damage		
	fixed securely		
Check battery voltage (12-14 Volt per battery)			
Check battery capacity			
Control unit /	no damage		
	fixed securely		
Cables and connecting plugs / no damage fixed securely			0



# Strider MD 4 Plus

# Maintenance and inspection

Description (Component / inspection for)			ssment Defective
Component electronic sy	: Displays and controls, electric system, vstem		
Drive lever/	No damage		
	Easy functioning over the entire lever movement		o
	Returns to central position after releasing from any position		
	Secure blockage of magnetic brakes when lever is in central position (Strider can not be pushed)		o
Component	Component : Drive		
Motor, drive	/ no damage fixed securely drive noise		
Motor, magn	etbrake / brake force (Scooter can not be pushed)		О
Engaging lev	functions easily		0
	lever engaged (lever remains engaged)		



# 16.0 Troubleshooting

#### 16.1 Before troubleshooting

Before you start troubleshooting, please observe the following points to prevent errors coming into the process.

- Switch the Strider off.
- ➤ Check the main plug (1) and the battery plug (2) for a tight fit.
- Switch the Strider on again.

If the fault occurs again, you will find information about troubleshooting and fault remedy in the following lists.



16.2 Troubleshooting

Troubleshooting		
Fault	Cause	Remedy
no display at the dashboard	Scooter not switched on	Switch the scooter on (chapter 7.4)
	Power supply interrupted	Battery not pluged in
		Front unit connector not plugged in
	-	Check the battery fuses (chapter17.5)
	-	Check fuse in power supply to tiller head (chapter 17.5)
	Batteries discharged	Charge the batteries (chapter 11.0)
	Batteries defective	Replace batteries (dealer)
	Operation indicator blinking	Check blink code (chapter 16.3)

# Strider MD 4 Plus

Fault	Cause	Remedy
Scooter does not run	Check battery charge display (battery discharged).	Charge the batteries (chapter 11.0)
	Strider switched to push mode	Switch to drive mode (chapter 9.0)
	Drive lever pressed while switching on	Release drive lever
	Fault on drive lever	Visit your dealer
	Automatic switch- off (overload protection) active	Switch the electromobile off and switch it on again a few seconds later.
	Operation indicator blinking	Check blink code (chapter 16.3)
Main fuses blow frequently	Batteries defective	
	Motor defective	
	Fault in control unit	Visit your dealer
	Short-circuit in electrical equipment	
Battery charge display moves rapidly to discharged during	Batteries discharged	Charge the batteries (chapter 11.0)
journey	Batteries defective	Visit your dodor
Motor jerks during driving	Motor defective	Visit your dealer



Fault	Cause	Remedy
Lighting / indicators not working	Scooter not switched on	Switch the scooter on (chapter 7.4)
	Power supply interrupted	Check the battery fuses (chapter 17.5.2)
		Check front unit and battery connecting plug (chapter 13.4.1 / 13.4.3)
	Switch defective	Visit your dealer
Batteries do not charge	Check fuse in power supply to tiller head	Replace fuses (chapter 17.5.1)
	Defective fuse in battery cable	Replace fuses (chapter 17.5.2)
	Batteries not plugged in	Plug in batteries (chapter 13.4.3)
	Front unit connector not plugged in	Plug in front unit connector (chapter 13.4.1)
	Defective fuse in battery charger	Replace fuses (chapter 17.5.3)
	Battery charger defective	_ Visit your dealer
	Batteries completely discharged	,

# 16.3 Operation indicator blink codes

(1) = operation indicator





#### 16.3.1 Blink codes

Fault	Cause	Remedy		
Operation indicator blinking (fault display)				
blinking slowly when switching on	Drive lever pressed down while switching on	Release drive lever		
blinking slowly during the journey	Battery voltage too low	Finish your journey as soon as possible and charge the batteries		
blinking slowly, scooter does not run	Check battery charge display (Batteries discharged)	Charge the batteries (chapter 11.0)		
	Drive lever pressed while switching on	Release drive lever		
	drive lever defective	Visit your dealer		
	Automatic switch- off (overload protection) active	Switch the scooter off and switch it on again a few seconds later.		
blinking rapidly, scooter does not run	Check battery charge display (Batteries discharged)	Charge the batteries (chapter 11.0)		
	Scooter switched to push mode	Switch to drive mode (chapter 9.0)		
	Connecting plugs at the control unit interrupted	Check connecting plugs at the control unit (dealer)		
	Fault in control unit			
	fault in magnetbrake	Visit your dealer		
	drive lever defective			



# 17.0 Repairs

The following repair information should enable you to carry out small repairs on your vehicle yourself. You should, however, only carry out such work if you are used to working with the tools described here since it is impossible to fully prevent injury hazards when handling tools. If you are not sure, you should try to get help from a second person if possible or contact your dealer.

In order to guarantee that all nuts and fixing screws are fitted tightly after repairs, you should ensure that these are tightened using the torque specified. You will find a list with the relevant torques in the Appendix.

# 17.1 Information about safety at work



#### Clamping and crushing hazard!

Pay particular attention to hazards caused by clamping and crushing while carrying out any repair work. This applies particularly to all rotating and adjustable parts of the scooter such as around the steering wheels.

The Strider must be lifted in order to carry out certain work such as removing the wheels.

- ▶ Before you lift the Strider, make sure you prevent it rolling away by wedging it securely.
- → Make sure the vehicle cannot fall down when raised by using suitable supports such as wooden blocks.
- ➡ Always place the blocks under metal components such as frames, drive units.

Do not support the Strider by the plastic panelling!

#### 17.2 Tools

The following tools are necessary to carry out the repairs described:

- 1 x screwdriver
- 1 x screwdriver; Phillips head No. 2
- 2 x socket spanners, size 12 mm
- 1 x socket spanner, size 19 mm
- 2 x ring spanner; size 10 mm
- 1 x ring spanner; size 14 mm
- 1 x ring spanner; size 17 mm



#### 17.3 Mechanics

#### 17.3.1 Adjusting the drive lock clamping bolts

The clamping tightness is adjusted by turning the clamping bolts.

The clamping tightness should be set so that the clamping lever can be closed by hand without requiring too much force.

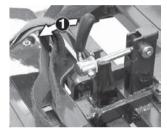
#### **Tools required:**

1 x screwdriver; Phillips head No. 2

#### Adjusting the clamping tightness:

➡ Unlock the clamping lever (1).

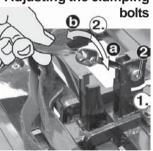
# Unlocking the clamping lever

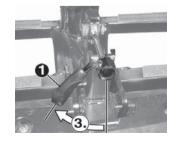


- Adjusting the clamping bolts:
  - (1.) Loosen the locking screws (2) (Philips head No. 2.)
  - (2.) Turn the clamping bolts in the appropriate direction:
    - (a) turn to right = increase clamping tightness
    - (b) turn to left = decrease clamping tightness
  - (3.) Align the clamping lever (1).

    In order that the clamping bolt fits precisely into the receptacle when coupling the drive unit (see chapter 14.4.1), the clamping lever (1) must be leaning slightly to the left when it is unlocked (oriented to around 7 o'clock)







➡ Checking the clamping bolt setting.

#### It must:

• automatically fall into the chassis receptacle (3).



• be able to be locked by hand without use of great force (4).



➤ Checking the clamping lever alignment. The clamping lever (5) must be inclined slightly to the right (around 1 o'clock) when locked.





→ Tighten the locking screw (6).

Tightening the locking screw



#### 17.3.2 Wheels - removal and replacement

#### **Tools required:**

1 x socket spanner, size 19 mm

#### Removing the wheels:

Remove the wheel fixing protective cap
 (1) with a screwdriver.



#### Removing the wheels:

- ➤ Loosen the self-locking nut (2) for the wheel fastening (size 19 mm).
- Secure the Strider against rolling away.
- ➤ Lift the Strider and support it (see chapter 18.0).
- → Remove the self-locking nut for the wheel fastening (size 19 mm).
- → Pull the wheel off the stem.



#### NOTE

- Do not use force to remove the wheels from the axles.
   Your specialist dealer has the necessary special tools.
- The handbrake drums are bolted to the front wheel rims.

#### Front wheel



#### Rear wheel



#### Fitting the front wheel:

- ▶ Push the wheel onto the stem (3) as far as the wheel stop.
- Screw the wheel fixing self-locking nut
   (4) and tighten it (size 19 mm).
- Lower the Strider.
- ➡ Retighten the self-locking nut.
- Press the protective cap onto the wheel fixing nut.

## Fitting the front wheel





#### Fitting the rear wheel:

→ Place the key (5) in the slot in the drive shaft (6).

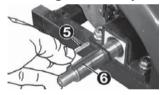


#### **NOTE**

The key is rectangular. Place it with its widest side in the axle slot.

- ▶ Push the wheel onto the stem and align the wheel hub groove (7) with the key in the drive shaft.
- Push the wheel on as far as the drive shaft stop.

#### Locating the axle key



## Fitting the rear wheel



# Locating the washer



➡ Place the washer (8).

- Screw the wheel fixing self-locking nut
   (9) and tighten it (size 19 mm).
- Lower the Strider.
- Tighten the self-locking nut.
- Press the protective cap onto the wheel fixing nut.

Securing the rear wheel





#### 17.3.3 Replacing the inner tube / tyre

- Remove the damaged wheel.
- Unscrew the valve cap (1).
- Carefully press the valve plunger (a) inwards with a screwdriver until the inner tube is completely deflated.



#### Risk of accidents!

• Dismantle the wheel rims only when the inner tube is completely deflated.

#### Dismantling the wheel rims:

- ➤ Loosen the three nuts (2) with a socket spanner (size 12 mm) and remove together with the lock washers (3).
- Separate the wheel hub (4; front wheel) / brake drum (5; rear wheel) from the wheel rim
- Remove the inner wheel rim (6) from the tyre.
- Remove the outer wheel rim (7) from the tyre.
- → Pull the inner tube (8) out of the tyre (9).

#### Reassembly:

- → Push the inner tube (8) into the tyre (9).
- Inflate the inner tube until it is unfolded.
- ➤ Place the outer rim (7) in the tyre, at the same time make sure the valve cutout is above the inner tube valve.
- ▶ Place the inner rim (6) in the tyre and align the fixing holes.
- Place the wheel hub (4; front wheel) / brake drum (5; rear wheel) in the inner wheel rim.
- ► Locate the lock washer (3) screw on the nuts (2) and tighten evenly.
- Inflate the tyre to the correct pressure (18 - 20 hPa / 1.8 - 2.0 bar / 25 - 28 PSI).

#### Deflating the tyres



# Reassembling the Strider wheel





#### 17.3.4 Adjusting the handbrake

- Secure the Strider against rolling away.
- → Raise the side with the braked wheel and support (see Chapter 18.0).

Before adjusting the brake, check that the handle adjustment (1) is screwed fully in.

If this is not the case, then:

- turn the locknut (2) until this contacts the adjusting screw (3).
- ➡ Turn the adjusting screw until it contacts the handle

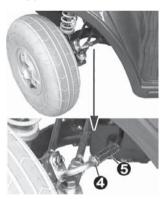
- ▶ Loosen the adjustment element locknut(4) on the front wheel.
- Turn the adjusting screw (5) until resistence can be felt at the brake lever after about 1/3 of its operating distance (a). (Apply brake lever lightly only).
- → Hold the adjusting screw (5) immobile and tighten the locknut (4).
- Repeat the brake adjustment as described above on the second brake.

#### at the handlebars.





# Adjustments at the front wheel



#### **Brake lever movement**





#### Checks after adjustment:

The following points must be checked after brake adjustment, and adjustments must be repeated until the brake functions correctly.

- uniform brake effectiveness on both front wheels when braking from movement (see chapter 7.8.2).
- Braking wheel free running when brake not applied.

#### Checking free running:

➡ Rotate the braking wheel.

#### Result:

- Wheel rotates freely = brake adjustment OK
- Wheel difficult to turn = brake too tight, readjust



## 17.4 Lighting

#### **Tools required:**

1 x screwdriver; Phillips head No. 2



#### 17.4.1 Replacing bulbs in headlights and rear light

Bulb version used: 24 V / 5 Watt (glass base lamp)



#### **NOTE**

The working sequence for front and rear indicators is the same, and is described using photographs of the rear lights.

► Loosen the fixing screw (1) and remove the front or rear light lens.





⇒ (1.) Pull the bulb out of the lamp holder.



⇒ (2.) Align the bulb base with the bulb holder and press the bulb in.



➡ Insert the rear or front light lens and secure with the fixing screws.

#### 17.4.2 Replacing bulbs in front/rear indicators

Bulb version used: 24 V / 10 Watt



#### **NOTE**

The working sequence for front and rear indicators is the same, and is described using photographs of the rear lights.

► Loosen the fixing screw (1) and remove the front or rear light lens.



Removing the lamp lens (Example: rear light)



#### Remove the bulb:

- (1.) Press the bulb in lightly and remove by turning 1/8 turn to the left.
- (2.) Pull the bulb out of the lamp holder.

#### Removing the bulb



#### Fitting a new bulb:

- (1.) Align the bulb base pins with the grooves in the lampholder and push the bulb into the lampholder.
- (2.) Press the bulb in lightly and lock by turning 1/8 turn to the right.
- ➡ Insert the rear or front light lens and secure with the fixing screws.

#### Fitting a new bulb

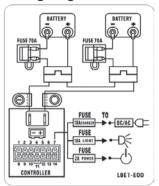


#### 17.5 Fuses

#### 17.5.1 Strider Fuses

A wiring diagram with fuse sizes is located on the control unit cover.

#### Wiring diagram



The Strider is fitted with the following fusible fuses.

- (1) 2 A fuse = power supply to tiller head
- (2) 10 A fuse = Light
- (3) 10 A fuse = charging socket

# 10 2 3

#### To replace Fuse:

- Open fuse holder.
- ▶ Pull out fuse and replace it.
- Close fuse holder.





#### 17.5.2 Battery Fuses

2 types of battery fuses are used.

#### Type 1:

70 A fuse = strip fuse Fuse holder in the plus pole cable of the batteries

#### To replace Fuse:

- Unscrew fuse housing.
- Pull out fuse holder.
- ➤ Loosen both clamping screws (1, SW 4 mm) of the strip fuse.
- → Replace fuse strips (2) and tighten clamping screws.
- Screw together fuse housing.

#### Type 2:

70 A fuse = strip fuse Fuse holder at the plus pole of the batteries (illustration without insulating cap)

#### Battery fuse: type 1







#### Battery fuse: type 2



#### To replace Fuse:

 Remove insulating cap of the fuse holder.



# Fire and burn hazard by bridging the Battery Poles!

- Do remove insulator of fuse holder only.
- ➤ Loosen both clamping screws (1, SW 4 mm) of the strip fuse.
- ➤ Replace fuse strips (2) and tighten claming screws.
- ➡ Place insulating cap of fuse holder.



#### 17.5.3 Battery charger fuse

• 10 A fuse (1)



#### 17.6 Batteries

Only replace the batteries with the following battery types:

12 V / 38 Ah - 20 h (32 Ah - 5 H), liquid acid deep cycle batteries Max. battery size (I x w x h) =  $197 \times 165 \times 170 \text{ mm}$ 

You may *not*\*use wet cell batteries with detachable cover caps.



#### Risk of accidents!

• Refitting the battery may only be carried out by your dealer.

#### 17.6.1 Disposal of used or damaged batteries



#### Caution acid!

• Observe safety information in chapter 1.6!



#### **BATTERIES ARE HAZARDOUS WASTE!!**

Used and defective batteries must be properly disposed of and only handed over to the correct disposal points.

▶ Please give used or damaged batteries back to your dealer. He will ensure that they are properly disposed of.

#### Handling damaged batteries:

- When handling damaged batteries or objects which have been soiled with acid, you must always wear:
  - protective goggles
  - acid-proof gloves
  - respiratory protection
- Always wash soiled objects and tools with plenty of water.

#### **Transporting damaged batteries:**

- ➤ Always wear protective goggles and acid-proof gloves.
- ➡ Always transport and store batteries in an acid-proof container.



#### 17.6.2 Refitting battery cables



# Fire and burns hazard if battery terminal is short-circuited!

- Never touch both battery terminals simultaneously with tools (shorting out).
- Terminals are protected with insulating caps. Only ever remove the insulating cap from the terminal which you are going to loosen.

#### **Tools required:**

2 x ring spanner; size 10 mm

Remove the batteries from the Strider as described in chapter 13.3.4.

#### Refitting the battery cable:

- First (1) loosen the terminal on the battery negative terminal (black cable) with a ring spanner size 10 mm, and remove the cable.
- ➤ Then (2) loosen the terminal on the battery positive terminal (red cable) with a ring spanner size 10 mm, and remove the cable.
- Replacing the battery and connect the battery cable in reverse order:

First connect the cable to the battery positive terminal (2).

Then connect the cable to the battery negative terminal (1).

Reinserting the batteries into the Strider as described in chapter 13.4.3.



# 18.0 Temporary storage

If you are not intending to use your Strider for longer periods (e.g. over the winter, you should prepare it as follows:

- Remove soiling and dust.
- Charge the batteries completely.
- Check the tyre pressure and adjust if necessary.
- ➡ Place the Strider on supports. Lift the Strider high enough so that the tyres are no longer touching the floor.

#### Care during storage:

Recharge the batteries once a month (see chapter 10.0).

#### Front support,



#### Rear support



# 19.0 Appendix

# 19.1 Nameplate

The nameplate is located on the metal sheet Nameplate between the batteries and contains the following information:

- Model number
- Data manufacture (month/year)
- Manufacturer
- Serial number
- Maximum speed
- · User weight





# 19.2 Specifications

#### 19.2.1 General data

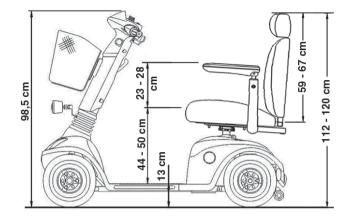
Strider application class	
(internal and external use)	Тур В
Version	4-wheel version
Turning radius	156 cm
Speed	12 kph (8 mph)
Maximum range*	approx. 21 Miles
Maximum climable incline	10°
Maximum climable obstacle	80 mm
Total weight	
(ready for driving incl. batteries)	98.7 kg
weight heaviest part	26.1 kg
Maximum working load (user weight)	160 kg (25 stone)
Tyre size	3.00 - 5
Tyre pressure	28 PSI (2.0 bar)
Working voltage (battery voltage)	24 Volt
Batteries	2 batteries of make
	please see chapter 17.6
Storage temperature	- 40°C bis + 65°C
Ambient temperature	- 25°C bis + 50°C
Bulbs:	
Headlight	24 Volt / 5 Watt
Rear light	24 Volt / 5 Watt
Front indicator	24 Volt / 10 Watt
Rear indicator	24 Volt / 10 Watt

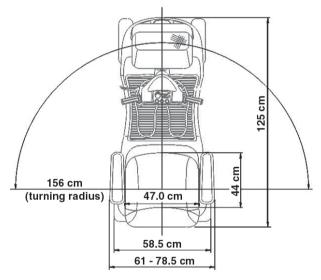
<sup>\*</sup> Theoretical range is calculated under test conditions in accordance with European standards.

Actual range in normal use will depend on many factors, including the condition of the vehicle and its batteries, the weight of the driver, correct tyre pressure, ambient temperature, and the gradient and surface of the road or pavement.



#### 19.2.2 Dimensions





# Strider MD 4 Plus Appendix - tightening torques

## 19.3 Torque for fixing screws

Front wheel central self-locking Nut (M10\*p1.25) = 50 NmRear wheel central self-locking Nut (M12\*p1.25) = 60 NmFront / rear wheel rim, 3 nuts (M8\*p1.25) = 33 Nm

#### General torque for nuts and bolts:

M5 = 4.5 to 6 Nm M6 = 8 to 12 Nm M8 = 18 to 25 Nm M10 = 30 to 40 Nm M12 = 50 to 60 Nm

## 19.4 Disposing of the scooter

The scooter consists of metal and plastic components, electronic components, electrical cables and batteries.

Disposal of the individual materials must be carried out in accordance with environmental and disposal regulations in the relevant country, and may only take place after the scooter has been dismantled.

To dismantle the electromobile and to separate and dispose of the materials, you would be advised to hand it over to your specialist dealer.

Batteries may not be disposed of in domestic waste, and must be disposed of according to national regulations



# 20.0 Warranty information

The Strider Model MD 4 scooters carry a 12 months warranty from date of purchase.

#### Important!

- During the warranty period any parts that have become defective due to faulty workmanship or material will be repaired or replaced without charge by **Days Healthcare** supplier / dealer.
- The warranty excludes tyres and all items that have been subject to undue wear and items subjected to misuse.
- Unauthorized changes or modifications will forfeit your warranty.
- If a defect or fault is discovered, the Days Healthcare supplier / dealer from whom the scooter was purchased should be notified immediately.

#### Limitation of liability

The warranty does not extend to the consequential costs resulting from fault clearence, in particular freight and travel costs, loss of earnings, expenses, etc.

The manufacturer will not accept responsibility for any damage or injury caused by misuse or non-observance of the instructions set out in this user manual.



# 21.0 Annual inspections carried out

Annual mopostione sarriou suc				
Date:	Date:			
Dealer´s stamp	Dealer's stamp			
(Signature)	(Signature)			
Date:	Date:			
Dealer´s stamp	Dealer's stamp			
(Signature)	(Signature)			
Date:	Date:			
Dealer´s stamp	Dealer's stamp			
(Signature)	(Signature)			
Date:	Date:			
Dealer´s stamp	Dealer's stamp			
(Signature)	(Signature)			

days

(Dealer's stamp)



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