



TRANSLATION OF THE ORIGINAL

USER MANUAL

SOLO



SOLO⁺

BLACK EDITION



CE

2024-01 (7.1)

EN

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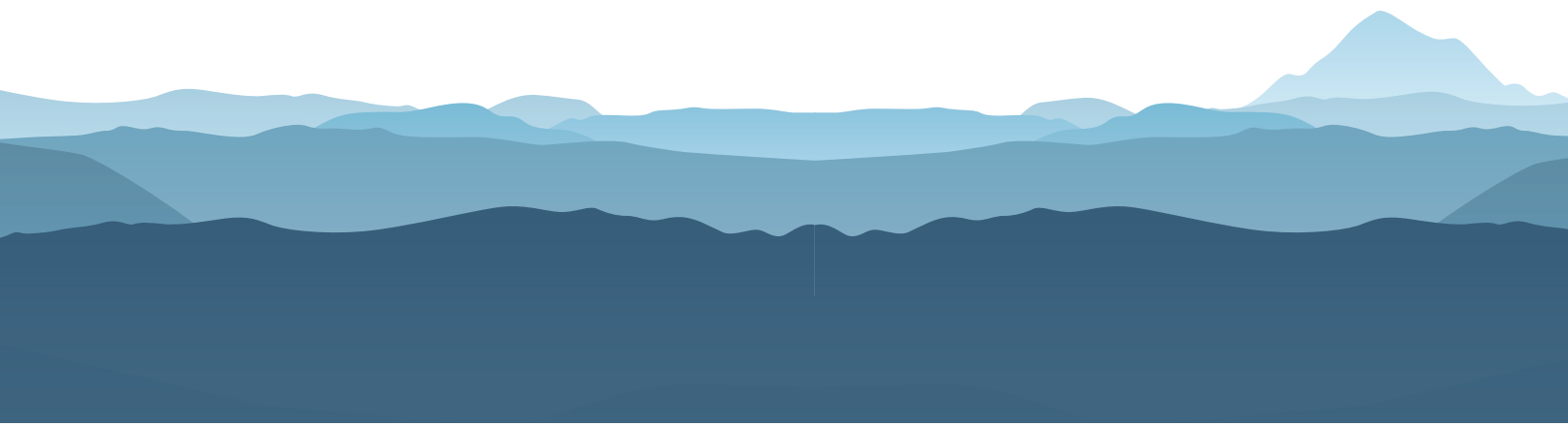
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Information about the device types:

This user manual has been universally created for the device types SOLO and SOLO⁺. These travel drives differ only in the technical data and in the colouring. You can tell which type of device you have by the serial number (chapter "Type plate incl. serial number"). All chapters listed apply to both device types. Please note whether a lithium-ion battery pack (ALPHA BOX / integrated battery indicator) or a lead gel battery pack (BETA BOX / without battery indicator) is present.

The SOLO has been successfully tested by TÜV Süd Product Service GmbH in Hanover according to DIN EN 12182, DIN EN 12184 and the relevant parts of ISO 7176-14.

People with visual and reading impairments or intellectual disabilities should print out the user manual available on the website in enlarged letters or have this manual read to them, if necessary. On our homepage, you will also find all safety-related changes which have been made to the user manual. All versions with details of the production period of the product are obtainable at: **www.aat-online.de/en**
> Service > Download area > Rehabilitation and ambulance transport > User manuals

All serious incidents occurring in relation to the device must be reported to the manufacturer and to the competent authority of the Member State where the user and/or occupant is established.

**WARNING**

Failure to observe this user manual, in particular the safety instructions, can lead to defects in the SOLO and endanger the user and persons in the immediate vicinity of the SOLO. There is an increased risk of injury! In the event of an infringement, claims for warranty and liability are excluded!

The product is state of the art and complies with the associated technical safety requirements. Nevertheless, a low level of residual risks cannot be ruled out. Please observe the safety instructions to this end.



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1 Symbols and safety instructions



DANGER - Immediately imminent danger

If not avoided, this will result in death or severe bodily injuries!



WARNING - Possibly imminent danger

If not avoided, this may result in death or severe bodily injuries!



CAUTION - Possibly imminent danger or harmful situation

If not avoided, this may result in minor bodily injuries or damage to property!



NOTE - Information by the manufacturer

General safety instructions



NOTE

If you have a visual disability, this user manual can be downloaded at: www.aat-online.de/en
> **Service** > **Download area** > **Rehabilitation and ambulance transport** > **User manuals**.

Read the user manual prior to start-up and observe the warning notices and safety instructions.

In the event of reading disabilities, cover training content in more depth verbally.

The user manual must be kept in a safe place after reading through it.

It is not made exclusively of flame retardant materials. Keep the SOLO away from sources of ignition.

The SOLO may interfere with highly sensitive electromagnetic fields of other electronic devices (e.g. anti-theft devices).

Stability tests were performed under laboratory conditions. The SOLO may behave differently under real conditions compared to laboratory tests.

Training may only be carried out by the manufacturer, the AAT field staff or the qualified specialist shop.



CAUTION

External heat sources may cause the surface temperature to rise (e.g. sunlight)!
Do not touch the affected surfaces in this case to avoid burns!



WARNING

Never reach into rotating/moving parts to avoid crushing.



DANGER

The SOLO must not be operated in the case of severe visual impairment and/or blindness!

Do not exceed the total permissible weight and the maximum person weight, as this may lead to defects or an overloading of the SOLO.

Avoid driving in heavy rain, ice, snow and on unsurfaced ground (sand, mud, loose crushed rock) to prevent slipping!

Do not use on escalators or travellers to avoid injuries caused by a crash or the falling out of the occupant and the occurrence of damage to property!

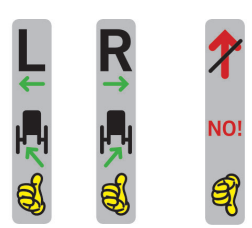
The operational capability of the SOLO can be influenced by electromagnetic fields (e.g. by mobile phones, electric generators or high-voltage sources)!

Do not store near medical devices, for example with a life support function, and diagnostic devices, as these may malfunction!

2 Explanation of the symbols on the packaging

Symbol	Explanation
	Handle with care The packaging including the product must be handled with special care.
	Protect from moisture Protect the packaging including the product from overly high air humidity. Cover during storage. If necessary, cover thoroughly with tarpaulins.
	Caution fragile Handle the packaging including the product carefully and never allow it to fall.
	This way up The packaging must be stored and transported in such a way that the arrows point upwards at all times. Any failure to comply with this rule, such as rolling or tilting the package, must be avoided.
	Temperature limit 0 to 40 °C Please do not store packaging incl. product and battery pack below/above the specified temperature limits.

3 Explanation of the symbols on the device and the type plate

Symbol	Explanation
	CE marking Position: Type plate The product complies with the relevant provisions of the EC Regulation EC 2017/745 (MDR)
	Date of manufacture Position: Type plate Indicates the year the medical device was manufactured.
	Manufacturer Position: Type plate Shows the manufacturer of the medical device (AAT Alber Antriebstechnik GmbH)
	SN Position: Type plate Serial number SOLO e.g. T1601XXXXXX / SOLO* T2001XXXXXX
	Medical Device Position: Type plate
	Observe the user manual! Position: Type plate The user manual must be observed! (www.aat-online.de/en)
	Attention! Position: Typeplate Refers to the need for the user to review the user manual and important safety-related information.
	Barcode Position: Type plate Contains the AAT serial number
	Technical safety test badge Position: Inside wheel hub drive (refer to chapter Technical safety testing) Informs about the due date of the next technical safety test
	TÜV Süd test mark Position: Inside the wheel hub drive Refers to the fact that the product has been successfully tested by TÜV Süd Product Service GmbH according to the standards DIN EN 12182, DIN EN 12184 and the relevant parts of ISO 7176.
	Open and closed lock Position: Coupling disc (refer to chapter: Engaging the drive wheels) Informs about the state of the respective drive wheel.  + ● = engaged  + ● = disengaged.
	Information arrow Mounting pin on the wheel Position: Below mounting pin on both wheels (refer to chapter "Mounting - Drive wheels") Informs about the correct attachment procedure for the wheels.
	Note Positioning of the anti-tip supports (refer to chapter 5.4) Position: Anti-tip supports Informs about the correct insertion of the anti-tip supports. Observe the "R" (on the Right) + "L" (on the Left) markings. Incorrectly inserted anti-tip supports are indicated by the "thumbs down" symbol and a red "No".

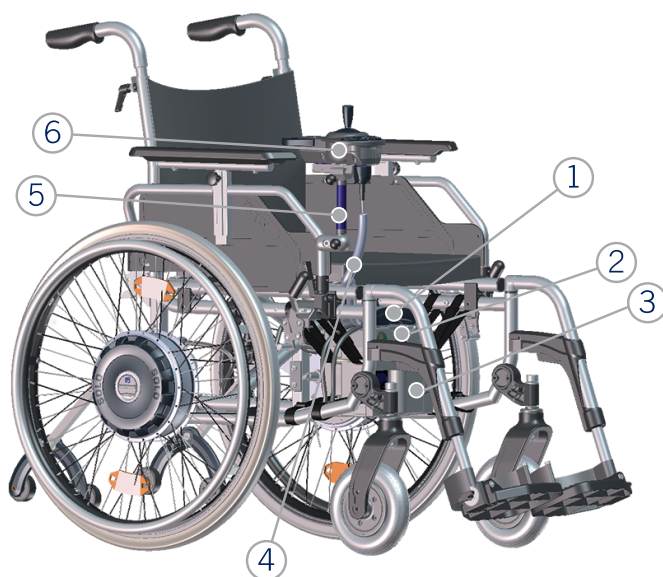
4 Product description

4.1 Device overview SOLO / SOLO⁺

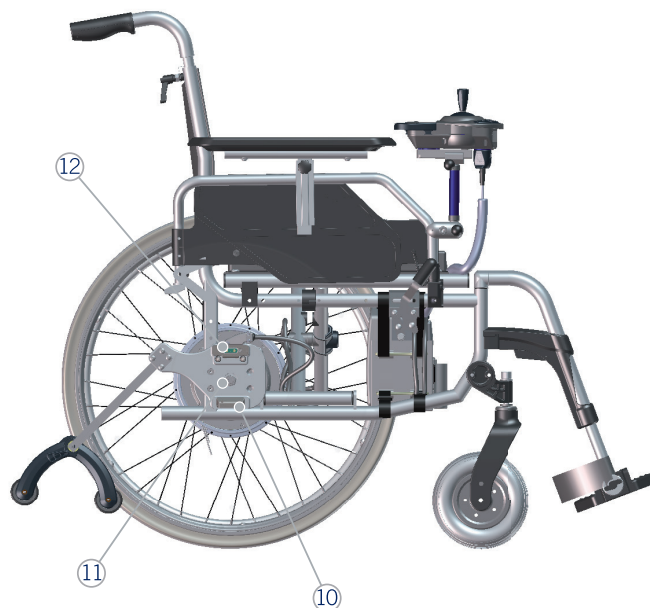


Manufacturer's information:

For a simplified assignment of the individual components, the numbers listed here are cited in full for the first time in the following chapters.



- ① Interface
- ② Battery pack (Lithium-ion or lead gel)
- ③ Battery bag
- ④ Spiral cable
- ⑤ Operating unit holder
- ⑥ Operating unit
- ⑦ Drive wheels
- ⑧ Anti-tip supports
- ⑨ Bracket
- ⑩ Mount
- ⑪ Adapter sleeve for quick-release axle wheels
- ⑫ Plug-in contact



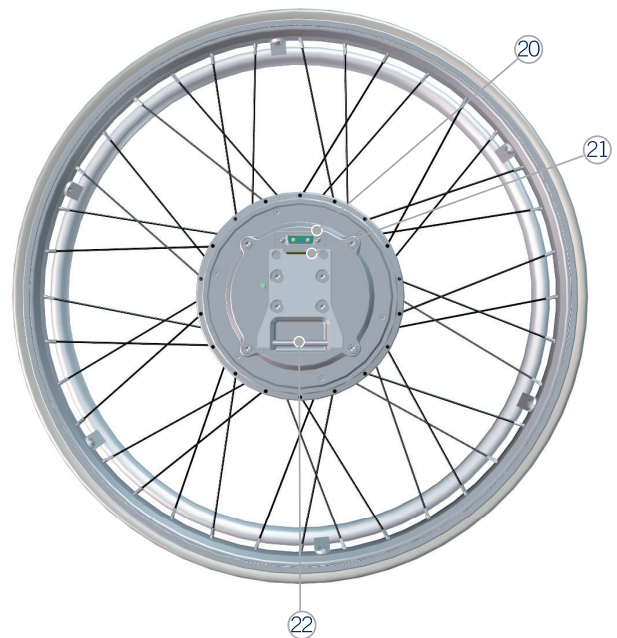
Type label incl. serial number (without figure)
on the back of the interface

Operating unit



- ⑬ Horn
- ⑭ Speed selection fast
- ⑮ Joystick
- ⑯ Display
- ⑰ Hand rest
- ⑱ Speed selection slow
- ⑲ ON/OFF

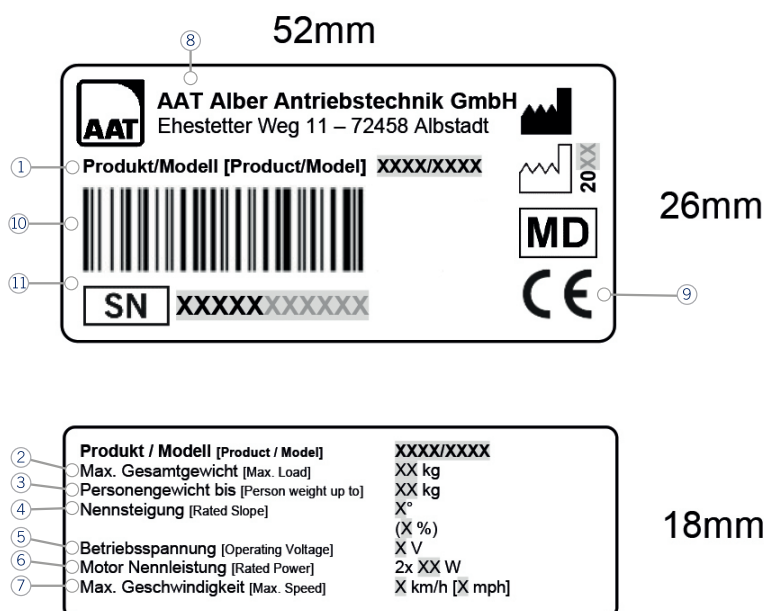
Drive wheels



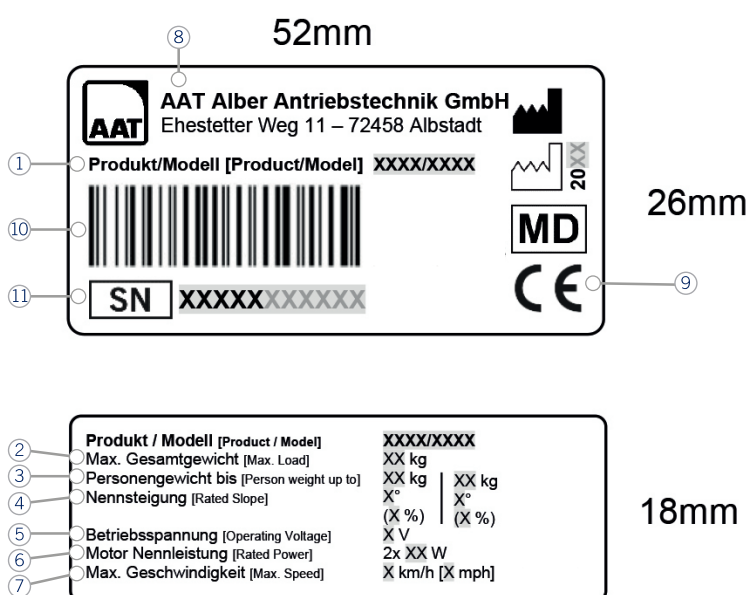
- ⑳ Plug-in contact
- ㉑ Catch
- ㉒ Mounting pin
- ㉓ Coupling disc
- ㉔ Release device

4.2 Overview of type plate incl. serial number

Type plate SOLO



Type plate SOLO⁺



- | | |
|------------------------|--------------------------------------|
| ① Product / Model | ⑦ Max. speed |
| ② Max. total weight | ⑧ Manufacturer address |
| ③ Person weight up to | ⑨ Symbols (refer to chapter 3) |
| ④ Rated slope | ⑩ Barcode (refer to chapter 3) |
| ⑤ Operating voltage | ⑪ Serial number (refer to chapter 3) |
| ⑥ Rated power of motor | |

4.3 Intended purpose

A travel drive is an electrical transport device and is attached to a manual wheelchair. The objective of the electrical transport device is to make movement with a manual wheelchair easier for a self-propelled person and to increase or fully take over the force generation for the movement of the wheelchair. This shall maintain autonomous movement and increase mobility and flexibility for the patient.

The travel drives can be used indoors and outdoors on level surfaces and upward and downward slopes. The device is controlled by the patients themselves or by an operator.

4.4 Intended patient population

The intended patient population includes all persons who are able to sit independently.

Users of the SOLO may have a maximum passenger weight of 165 kg (lithium-ion battery) or 160 kg (lead gel battery). Users of the SOLO+ may have a maximum passenger weight of 205 kg.

4.5 Medical requirements and indication

The operator must be physically and mentally able to operate the product.

The SOLO / SOLO+ transport device replaces the physical generation of force by the patient on a manual wheelchair. The use of the transport device is intended for patients who own a manual wheelchair but do no longer have sufficient physical endurance and strength to move by themselves.

The optional control unit is used when the wheelchair user does no longer have the motor ability to move the wheelchair by himself/herself by operating the joystick control, and the strength of the accompanying person is not enough to steer and/or push and brake a person sitting in the wheelchair.

4.6 Contraindications and restrictions

The travel drives must not be used if:

- the operator has obtained no training/instruction for the product!
- the operator is not physically and mentally able to operate the travel drive safely!
- more than one person shall be transported simultaneously!
- the operator does not have adequate eyesight!
- the braking effect is lost due to rain, wet conditions, snow or black ice!
- the braking effect of the travel drive does not set in!
- escalators or travelators shall be overcome!
- medical devices with e.g. a life support function, and diagnostic devices are in the proximity!
- it is not used according to the intended use!
- objects shall be transported!

4.7 User group

The travel drives are intended for their use by patients and lay operators.

Users are trained in the use of the device by means of a training course.

4.8 Technical data SOLO



WARNING - Do not exceed the total permissible weight and the maximum person weight, as this may lead to defects or overloading the SOLO.



NOTE - Observe the technical data.

Technology	SOLO	
	Lithium-ion (ALPHA-BOX)	Lead gel (BETA box)
Dimensions, battery pack	Refer to chapter "Dimensional drawing"	
Own weight	Both drive wheels = 18.6 kg; battery bag = 0.2 kg; Operating unit = 0.5 kg; interface incl. cable = 0.7 kg	
	Battery pack = 4.2 kg	Battery pack = 9.4 kg
	Total weight (without wheelchair) = 24.2 kg	Total weight (without wheelchair) = 29.4 kg
Total permissible weight	210 kg (person, wheelchair, SOLO) ^{(1), (4)}	
Maximum person weight	165 kg ⁽⁴⁾	160 kg ⁽⁴⁾
Widening of wheelchair by attachment	Approx. 60mm ⁽⁶⁾	
Possible wheel sizes	24"	
Speed forward backward	6 km/h 3 km/h	
Range with one charge of the batteries	35 km ⁽²⁾	25 km ⁽²⁾
Braking/rated slope with a person weight of up to 160 kg 165 kg	up to 20 % (11.3°) ^{(3), (4)}	up to 20 % (11.3°) ^{(3), (4)}
Batteries	28.8 V / 16 Ah	24 V / 16 Ah
Direct current motor	2 x 28.8 V / 150 W	
Noise information	The A-weighted sound pressure level is typically below 62 dB(A)	
Switching/actuating forces	Joystick: 3.5 N; buttons (ON/OFF, horn, speed selection): 0.74 N	
Static stability downhill / sideways	Observe the wheelchair manufacturer's information	
Maximum surmountable obstacle height	Observe the information of the wheelchair manufacturer and the chapter "Overcoming obstacles"	
Turning circle diameter	Observe the wheelchair manufacturer's information	
Grip ring outer diameter	540 mm	
Grip ring tube diameter	19 mm	
Tyre pressure	7 bar	
Storing/operating temperature: Device	-40 °C to +65 °C / -25 °C to +50 °C	
Storing/operating temperature: Battery pack	-20 °C to +65 °C ⁽⁵⁾ / -25 °C to +50 °C ⁽⁵⁾	
Charging temperature: Battery pack	0 °C to +40 °C	
Vibration information	The weighted RMS value of acceleration, to which the upper body is subjected, is typically below 2.5 m/s ² .	
Degrees of protection, IP class	IPX4	
Adhesive label with serial number	Interface	

(1) Observe the maximum load according to the wheelchair manufacturer's information.

(2) According to ISO 7176-4, the distance range depends, among other factors, on the weight of the transported person, the ground, the terrain profile, the ambient temperature, etc.

(3) The rated slope and braking ability also depend on the surface, terrain profile, ambient temperature etc.

(4) The person weight on the type plate and in the technical data were calculated using an assumed wheelchair weight of 20 kg.

(5) At temperatures below 0 °C the performance of the battery pack will decrease; therefore we recommend a storage temperature of at least 0 °C.

(6) The attachment width can vary further depending on the wheelchair model.

4.9 Technical data SOLO⁺



WARNING - Do not exceed the total permissible weight and the maximum person weight, as this may lead to defects or overloading the SOLO⁺.



NOTE - Observe the technical data.

Technology	SOLO ⁺ incl. lithium-Ion battery pack (ALPHA-BOX)
Dimensions, battery pack	Refer to chapter "Dimensional drawing"
Own weight	Both drive wheels = 18.6 kg; battery bag = 0.2 kg; Operating unit = 0.5 kg; interface incl. cable = 0.7 kg
	Battery pack = 4.2 kg
	Total weight (without wheelchair) = 24.2 kg
Total permissible weight	250 kg (person, wheelchair, SOLO ⁺) ^{(1), (4)}
Maximum person weight	205 kg
Widening of wheelchair by attachment	Approx. 60mm ⁽⁶⁾
Possible wheel sizes	24"
Speed forward backward	6 km/h 3 km/h
Range with one charge of the batteries	Up to 15 km ⁽²⁾
Braking/rated slope with a person weight of up to 160 kg from 161 kg to 205 kg	Max. 20 % (11,3°) ^{(3), (4)} max 15 % (9°) ^{(3), (4)}
Batteries	28.8 V / 16 Ah
Direct current motor	2 x 28.8 V / 150 W
Noise information	The A-weighted sound pressure level is typically below 60 dB(A)
Switching/actuating forces	Joystick: 3.5 N; buttons (ON/OFF, horn, speed selection): 0.74 N
Static stability downhill / sideways	Observe the wheelchair manufacturer's information
Maximum surmountable obstacle height	Observe the information of the wheelchair manufacturer and the chapter "Overcoming obstacles"
Turning circle diameter	Observe the wheelchair manufacturer's information
Grip ring outer diameter	540 mm
Grip ring tube diameter	19 mm
Tyre pressure	7 bar
Storing/operating temperature: Device	-40 °C to +65 °C / -25 °C to +50 °C
Storing/operating temperature: Battery pack	-20 °C to +65 °C ⁽⁵⁾ / -25 °C to +50 °C ⁽⁵⁾
Charging temperature: Battery pack	0 °C to +40 °C
Degrees of protection, IP class	IPX4
Vibration information	The weighted RMS value of acceleration, to which the upper body is subjected, is typically below 2.5 m/s ² .
Adhesive label with serial number	Interface

(1) Observe the maximum load according to the wheelchair manufacturer's information.

(2) According to ISO 7176-4, the distance range depends, among other factors, on the weight of the transported person, the ground, the terrain profile, the ambient temperature, etc.

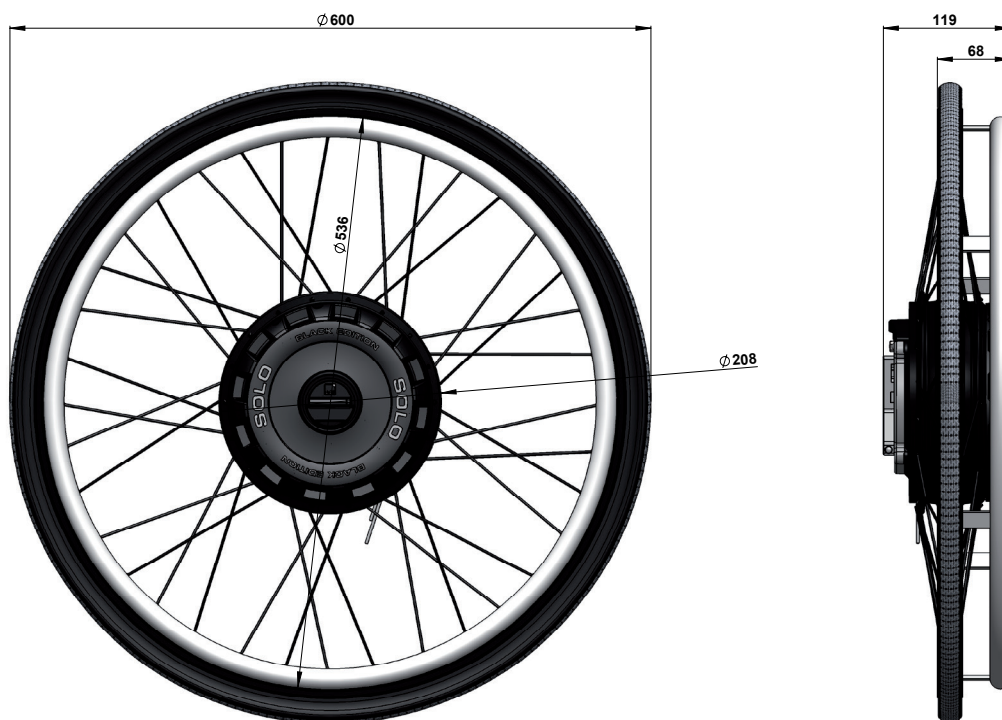
(3) The rated slope and braking capacity also depend on the surface, terrain profile, ambient temperature etc.

(4) The person weight on the type plate and in the technical data were calculated using an assumed wheelchair weight of 20 kg.

(5) At temperatures below 0 °C the performance of the battery pack will decrease; therefore we recommend a storage temperature of at least 0 °C.

(6) The attachment width can vary further depending on the wheelchair model.

4.10 Dimensional drawing SOLO/SOLO⁺



4.11 Scope of delivery



- | | |
|---|--|
| ① Drive wheels | ③ Battery pack (lithium-ion or lead gel) |
| ② Operating unit with operating unit holder | ④ Battery bag incl. Velcro tapes |
| | ⑤ Charger |

4.12 Accessories



NOTE - Only use AAT Alber Antriebstechnik GmbH accessories.



- | | |
|-----------------------------|--|
| ① Bracket | ④ Anti-tip supports |
| ② Spoke protector | ⑤ Motor vehicle voltage converter 12 V / 230 V |
| ③ Battery pack (additional) | ⑥ SmartControl attendant control |

Accessories for the operating unit



- | | |
|-------------------------------------|--------------------|
| ① Therapy tray installation | ⑤ Soft ball |
| ② Bracket for the attendant control | ⑥ Tetraplegic fork |
| ③ Dotter operator | ⑦ Swivel arm |
| ④ 40 or 50 mm ball | |

5 Assembly

5.1 Drive wheels



CAUTION - Plug-in contacts must be dry!

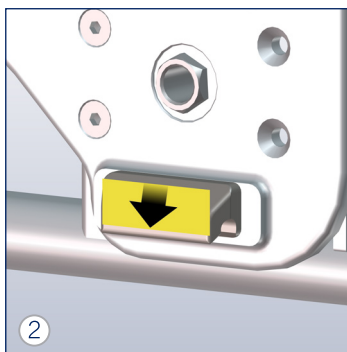


CAUTION - The drive wheels must be disengaged for mounting!
(refer to chapter "Manual driving with drive wheels")

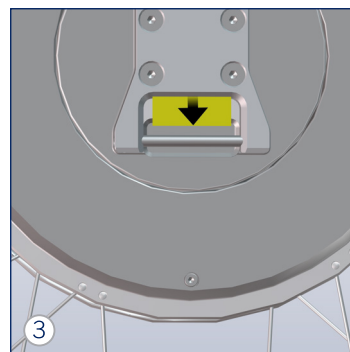
If the original wheelchair wheels are still on the wheelchair, remove them first.



Lift the wheelchair and position the drive wheel ⑦.



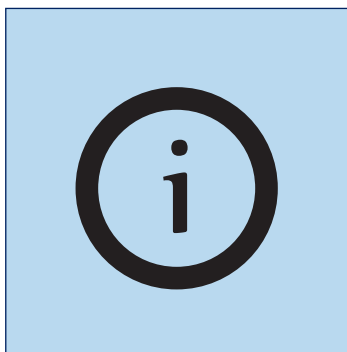
Attach the mount ⑩ to the bracket on the wheel in the direction of the arrow.



Detail view: ②②
Mounting pin on the wheel.



Lock the drive wheel.
» It must snap into place!



Repeat figures 1 - 4 on the other side.

5.2 Battery pack

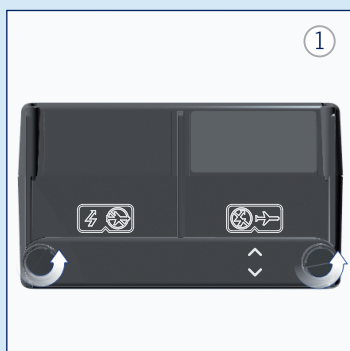


WARNING - Never short-circuit or connect the poles of the battery pack to avoid electric shocks!



CAUTION - Plug-in contacts must be dry!

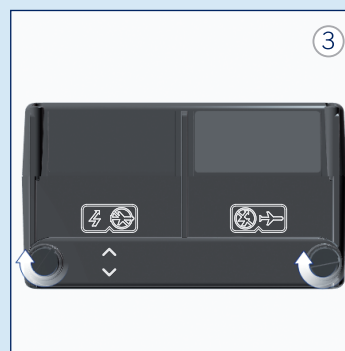
Establish driving mode (Fig. 1 - 3, only with lithium-ion battery pack)



Establish driving mode - Lithium-ion battery pack
Loosen the screws.



Turn and insert the switching strip. Observe the arrows - air plane crossed out.



Tighten the screws.



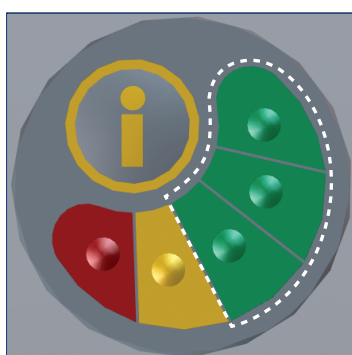
Insert the battery pack ② into the battery bag ③ and fix with Velcro.



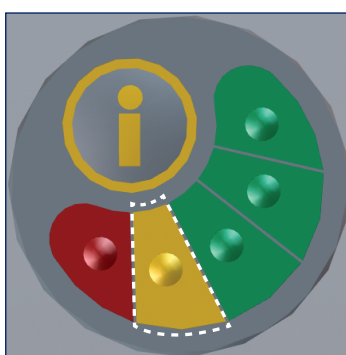
Plug in the interface ① .



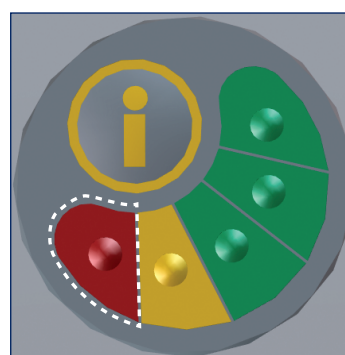
Check the battery pack.
Press the info button. (Only for lithium-ion battery)



Green = full



Yellow = low
» Charge if necessary.



Red = empty
» Charge!

5.3 Operating unit



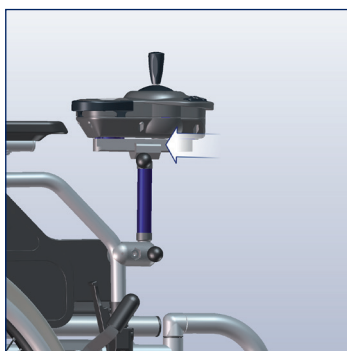
CAUTION - Plug-in contacts must be dry!



CAUTION - Never pull by the cable but by the plug to avoid defects.



Attach the operating unit holder (5).



Slide the operating unit (6) into the holder.



Secure with ball knob.



Plug in the spiral cable (4).



Detail view.

5.4 Anti-tip supports

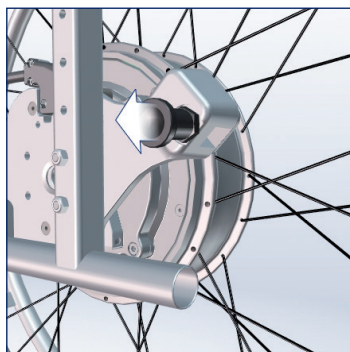


WARNING - Never use without both anti-tip supports to prevent the wheelchair from tipping backwards!

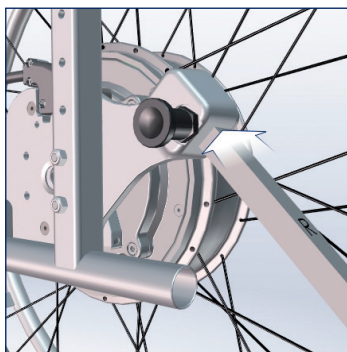


WARNING - Check the anti-tip supports before initial operation to ensure safety!

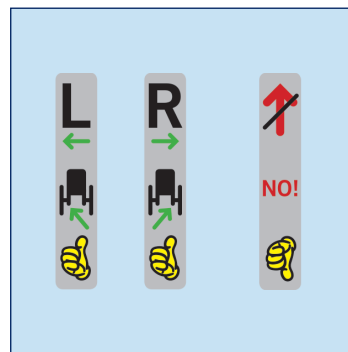
If there are no anti-tip supports on the wheelchair, use AAT anti-tip supports in pairs.



Remove the locking pin of the bracket (9).



Push the anti-tip support (8) into the bracket and secure with the locking pin.



Observe the "R" + "L" markings! Repeat process on the other side.

6 Starting up



DANGER - Operation only by a single, trained person. This person must be physically and mentally able to safely operate the SOLO and may not suffer from cognitive impairments!



DANGER - Never use without both anti-tip supports to prevent the wheelchair from tipping backwards!



DANGER - Avoid parallel journeys on steep hillsides or rails, to prevent the wheelchair from overturning!



DANGER - Cross over roads, crossroads and railway crossings with increased caution!



DANGER - Avoid driving on slopes with the SOLO deactivated, as there is no braking effect when doing so.



DANGER - Do not use on escalators or travellers to avoid injuries caused by a crash or the falling out of the occupant and the occurrence of damage to property!



WARNING - Do not drive up stairs or steps to prevent the wheelchair from overturning!



WARNING - Avoid driving in heavy rain, ice, snow and on unsurfaced ground (sand, mud, loose crushed rock) to prevent slipping!



WARNING - During driving breaks, when using local transport (buses, trams, etc.) and when transferring, switch the SOLO off and apply the parking brakes to prevent the wheelchair from rolling away.



WARNING - Drive down slopes at the lowest speed to avoid dangerous situations!



WARNING - When driving on public roads, observe the road traffic regulations!



WARNING - Practise outdoors on a level surface and at low speed!



WARNING - Never reach into rotating/moving parts to avoid crushing.



WARNING - If the drive elements become blocked or when the driving behaviour changes, switch off SOLO immediately and do not use it.



WARNING - Observe the maximum total permissible weight (refer to chapter "Technical data").



CAUTION - Always overcome kerbs/obstacles backwards (refer to chapter "Overcoming obstacles").



CAUTION - Maintain sufficient distance to the edge of the kerb to avoid damage!



CAUTION - When using seat supports (cushions, etc.), ensure that the occupant is securely seated to prevent the occupant from falling out or slipping!



NOTE - Never drive backwards on walls with the anti-tip supports mounted so as not to damage the anti-tip supports.

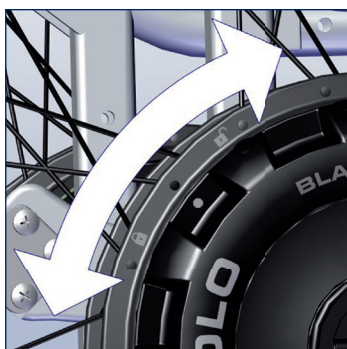


NOTE - Before first start-up, the battery pack must be fully charged!

6.1 Engaging the drive wheels



Turn the coupling disc ②③.
Observe the symbols.



 + ● = engaged.
 + ● = disengaged.



Turn the drive wheel on the grip ring until you hear it snap in.
» Repeat on the other side.

6.2 Switching on the device



Switch on the SOLO. ①⑨



Please, switch on the SOLO only after the occupant has taken his seat.

6.3 Display indicators



Start display. ①⑥



Standard display.
» Battery pack capacity
» Speed level



Immobiliser.



Warning notice
Wheel lock
Both wheels



Warning notice
Wheel lock
Left wheel



Warning notice
Wheel lock
Right wheel



Warning notice
Coupling disc
Both wheels



Warning notice
Coupling disc
Left wheel



Warning notice
Coupling disc
Right wheel



Warning notice
Undervoltage
Battery pack



Warning notice
Overvoltage
Battery pack



Warning notice
Overload



Warning notice
Temperature
 Battery pack



Warning notice
Temperature
 Drive wheels



Stand-up function



Parameterisation



Battery pack is being charged

Error messages
 (Refer to chapter "Error messages")



Battery pack



Drive wheels



Operating unit

6.4 Driving with the SOLO



DANGER - When going up a slope, reduce the speed in order to prevent the wheelchair from tilting backwards!



NOTE - Please refer to the chapter on warning notices, error messages and troubleshooting!



NOTE - Display lighting switches off if the operating unit has not been used for 20 seconds.



NOTE - In the event of longer breaks, the automatic switch-off switches off the SOLO after 10 min.



- » 5 bars = full battery
- » 3 bars = battery is half-full
- » 1 bar = battery empty > please charge.
(Refer to chapter "Battery pack and charger")

After switching on the device, please check the battery capacity.



Select speed.

- » Practise at the lowest ⑱ speed.
- » Cannot be set when moving - only when device is stopped.



Move the joystick ⑮ in the desired direction of travel.

- » Can be moved 360° in one go!



Horn. ⑬



Activate the immobiliser.

Press and hold the plus and minus buttons simultaneously for 2 seconds.

» The SOLO switches off.



Deactivate the immobiliser.

Switch on the SOLO.



Press and hold the plus and minus buttons simultaneously for 2 seconds.

Emergency stop function

When you let go of the joystick the SOLO stops automatically on the flat surface within 1 metre¹⁾.

¹⁾ depending on the weight of the transported person, the ground, the terrain profile, etc.

If the ON/OFF button is pressed for a longer time while driving, the SOLO switches off completely (without displaying a warning message beforehand).

6.5 Overcoming obstacles



NOTE - Observe the wheelchair manufacturer's information on the maximum obstacle height in the user manual without fail!



NOTE - Be mindful of the anti-tip supports if you need to climb edges or obstacles as they can otherwise be damaged.

6.6 Manual driving with drive wheels



WARNING - Avoid driving on slopes with the drive wheels in manual mode.



CAUTION - Risk of crushing between tyre and side part / armrest!



Switch off the SOLO.



Disengage the drive wheel.
Repeat on the other side.



Drive manually.

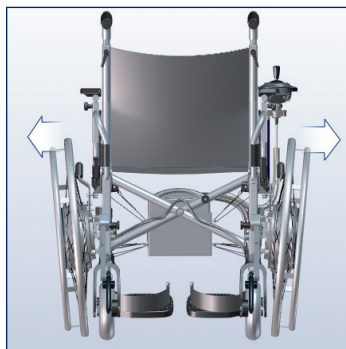
6.7 Manual driving with quick-release axle wheels



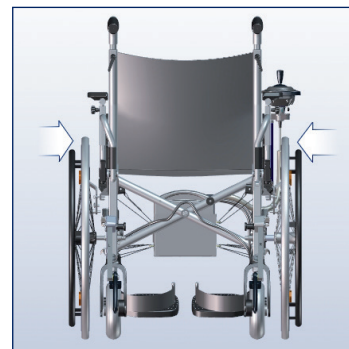
CAUTION - Risk of crushing between tyre and side part / armrest!



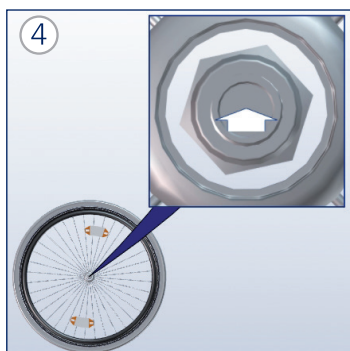
Switch off the SOLO.



Remove the drive wheels.
(Refer to chapter "Removal")



Mount the quick-release axle wheels. Observe figure 4 - 6.



Press the quick-release axle release button.



Adapt wheel.



Release the release button.
Repeat on the other side.

6.8 Deactivating the drive



Switch off the SOLO.
Press the ON/OFF switch.



Disengage the drive wheels.
(Refer to chapter "Manual driving with quick-release axle wheels")

7 Removal

Removing the drive wheels



Fold the release device ②4.



Turn the release device.



Remove the drive wheel.
Repeat process on the other side.

Removing the operating unit

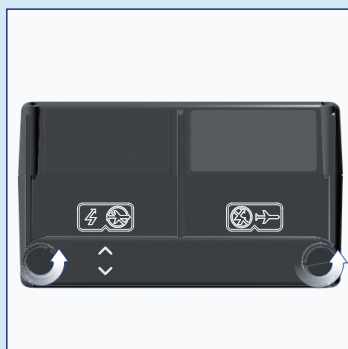
Carry out the steps listed in chapter "Operating unit" in reverse order.

Removing the battery pack

Carry out the steps listed in the chapter "Battery pack" in reverse order. Please note that the flight mode (crossed out lightning) is established for the lithium-ion battery pack.



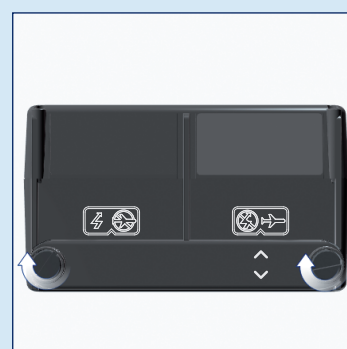
NOTE - To ensure that all individual switches have been activated by the switching strip, we recommend conducting a brief visual inspection before securing the cover in place.



Loosen the screws.

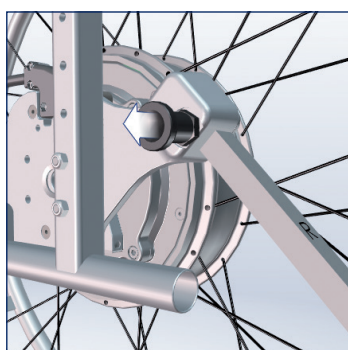


Turn and insert the switching strip. Observe the arrows.

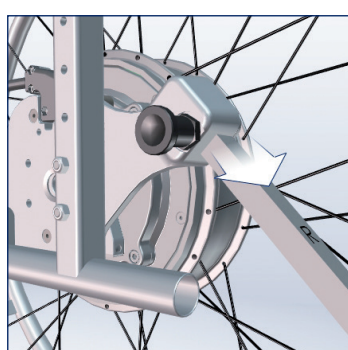


Tighten the screws.

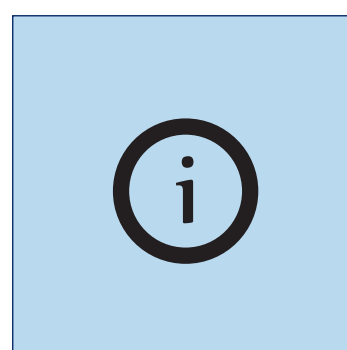
Removing the anti-tip supports



Pull the locking pin.



Remove the anti-tip support.



Repeat process on the other side.

8 Transportation



WARNING - Do not use the SOLO with wheelchair as a seat in a vehicle.



WARNING - Secure according to valid statutory provisions during transport in vehicles/ aeroplanes!



CAUTION - Switch off during transport!



CAUTION - Observe the vehicle's weight specifications!



NOTE - Store in a frost-free environment at least one hour prior to start-up to avoid malfunctions!



Information by the manufacturer:

In accordance with the special provisions A67, GGV-SEB, and GGVSee by IATA, the lead gel batteries are not considered dangerous goods! Batteries are permitted for air travel in accordance with DOT and IATA! Lithium-ion batteries are considered dangerous goods, but are approved for air freight transport according to DOT + IATA (the flight mode must be activated).

Nevertheless, in both cases, contact the airline in advance before taking a flight.

Deactivate and remove the SOLO (refer to chapter "Deactivating the drive" and "Removal").

If not already done, establish flight mode of the lithium-ion battery pack. (Refer to chapter "Removal")

Stow securely in the vehicle boot.

9 Care and maintenance



WARNING - Repairs and technical safety tests are performed by the manufacturer, the AAT field staff or the authorised specialist shop!



NOTE - Perform a visual inspection prior to each start-up! If parts are visibly defective or missing, contact the authorised specialist shop or the manufacturer!



NOTE - It is recommended to perform a technical safety test every two years. The inspection plate provides information about the latest date. Tip: After a change in operator/reuse.

9.1 Battery pack and charger



DANGER - Before shipping lithium-ion batteries (repair, disposal, etc.), it is mandatory to inform your specialist dealer or the manufacturer, as there is increased danger! Special shipping conditions may require specific packaging, among other things! Your specialised dealer will receive approved transport containers on request - shipping may only be carried out via the specialised dealer! (The regulation only applies to the lithium-ion battery pack)



WARNING - Never short-circuit or connect the poles of the battery pack to avoid electric shocks!



CAUTION - During the charging procedure, ensure that cables are laid safely to avoid tripping over them!



CAUTION - Do not attempt to repair or bypass defective fuses to avoid electric shocks!



CAUTION - Protect against moisture to avoid electric shocks!



NOTE - Never carry the charger by the charging cable/charging line.



NOTE - Charge the battery pack after each use! Exhaustive discharge results in a loss in capacity and shortens the service life.



NOTE - Protect the charger and the motor vehicle voltage converter against oils, greases, aggressive cleaning agents, thinning agents or damage.



NOTE - Observe the user manual for the charger/voltage converter.



NOTE - Store the battery pack in a frost-free environment at least one hour prior to start-up to avoid malfunctions.



NOTE - Do not charge the battery near heat-sensitive or flammable materials.

Recommendation: Remove the battery from the charger for long-term storage (or non-use). Carry out regular trickle charges at intervals of 1 month, then remove the battery from the charger again.



Information by the manufacturer:

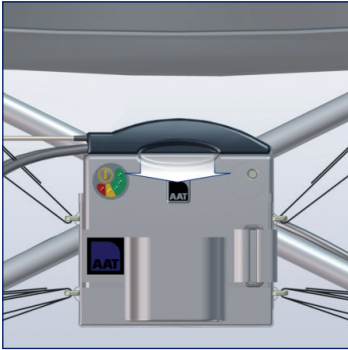
The battery pack is maintenance-free and rechargeable. New batteries only reach their full capacity after several charging cycles. During the charging process, the SOLO cannot be operated.



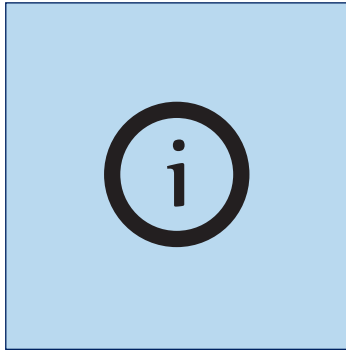
Charging the battery pack

Deactivate the SOLO. (Refer to chapter "Deactivating the drive")

Charging the lithium-ion battery pack



If necessary, unplug the interface.



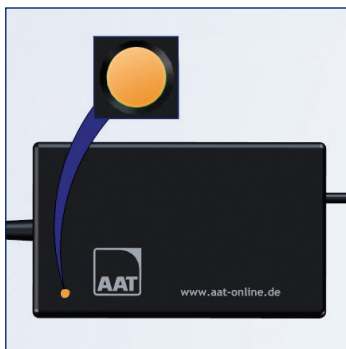
The battery pack can stay in the battery bag when being charged.



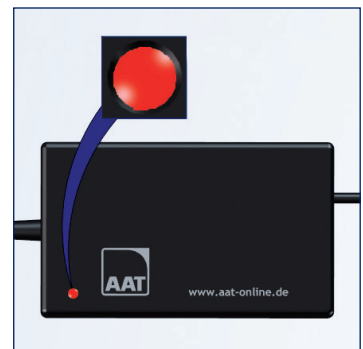
Connect the charger.
» Plug the charger connector into the charging port of the battery pack.



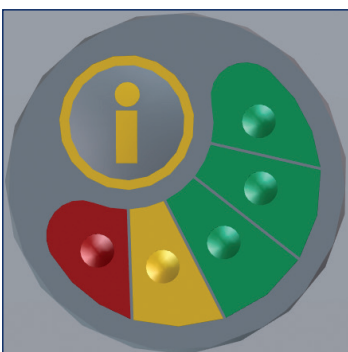
LED green = battery full
approx. 8 hours



LED orange = battery is being charged



LED red = battery empty
> please charge

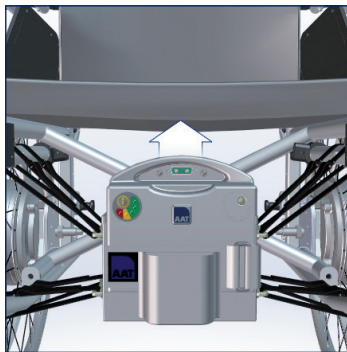


Check the capacity on the battery pack. (Refer to chapter "Battery pack")

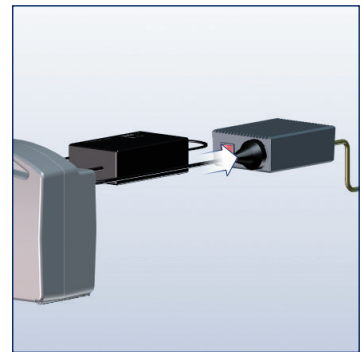
Charging the lithium-ion battery pack in a motor vehicle



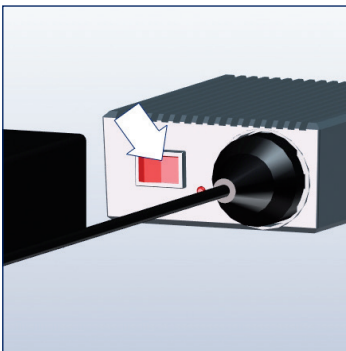
Deactivate the SOLO (refer to chapter "Deactivating the drive") and disconnect the interface.



Remove the battery pack.
» Open Velcro and remove battery pack.
» Connect charger to battery pack.



Connect voltage converter and charger.



Switch on the voltage converter.
Warning tone = low voltage!



LED green = battery full
approx. 8 hours



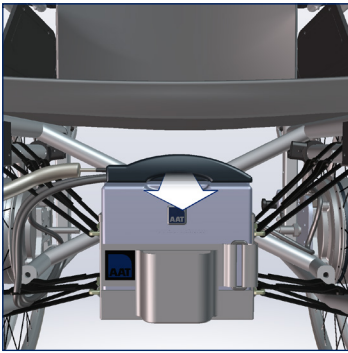
LED orange = battery is being charged.

Check the capacity of the battery pack (refer to chapter "Battery pack")

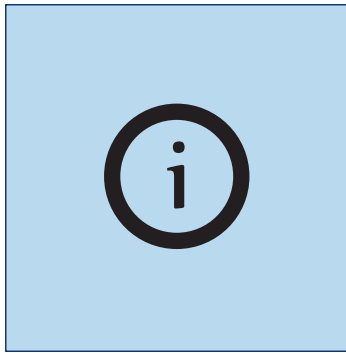


LED red = battery empty
> please charge

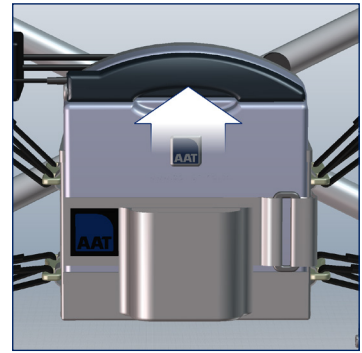
Charging the lead gel battery pack



If necessary, unplug the interface.



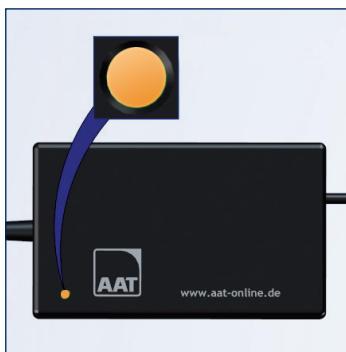
The battery pack can stay in the battery bag when being charged.



Connect the charger.
» Plug the charging plug connector into the socket of the battery pack.



LED green = battery full
approx. 8 hours

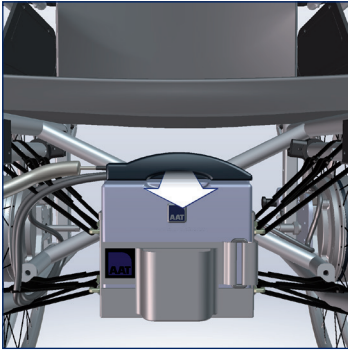


LED orange = battery is being
charged

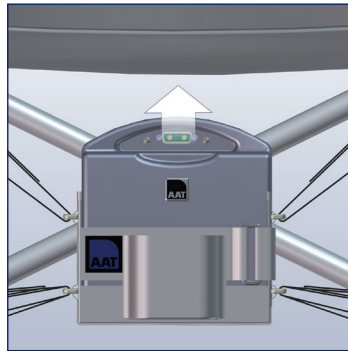


LED red = battery empty
> please charge

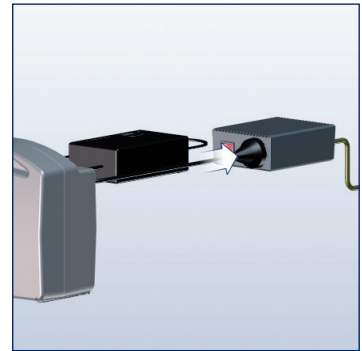
Charging the lead gel battery pack in a motor vehicle



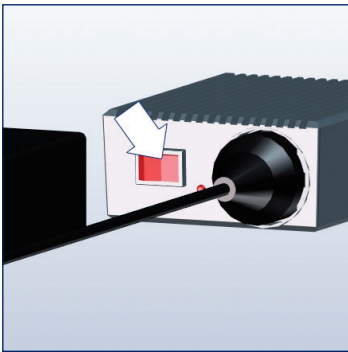
Unplug the interface.



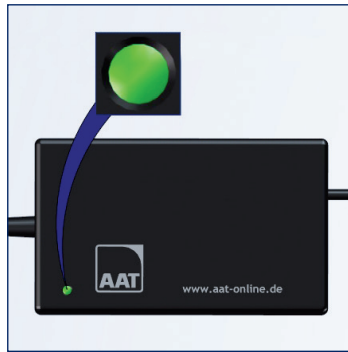
Remove the battery pack.
» Open Velcro and remove battery pack.
» Connect charger to battery pack.



Connect voltage converter and charger.



Switch on the voltage converter.
Warning tone = low voltage!



LED green = battery full
approx. 8 hours



LED orange = battery is being charged.

LED red = battery empty
> please charge

Information on the charger



Charger SOLO L
» Lithium-ion battery pack
» Battery capacity 16 Ah.



Charger SOLO B
» Lead gel battery pack
» Battery capacity 9.5 Ah.
» Incl. plug attachment



Possible error
LED does not light up.
Contact the manufacturer!

9.2 Cleaning and disinfection



WARNING - No moisture must be allowed to enter the interior of the device!
This may result in electric shocks! Use only damp cloths for cleaning the device's surface!
Never use wet cloths!



WARNING - Test all safety-relevant functions after cleaning!



WARNING - Do not smoke during cleaning!



NOTE - Keep the **SOLO** away from sources of ignition.



NOTE - clean the drive wheels in the event of dirt/deposits.



NOTE - Clean the wheelchair according to the manufacturer's information!



NOTE - Do not use a high-pressure cleaner!



NOTE - Do not use abrasive or aggressive agents (if necessary, test on an inconspicuous area first)!



NOTE - Do not use substances containing alcohol!



NOTE - Do not use acidic substances such as orange cleaner!

Wipe the surfaces of the **SOLO** with mild household cleaning agents.
» Observe the manufacturer's information.

If you want to disinfect the **SOLO**, carry out a wipe disinfection.

Use household disinfectants.
» Observe the manufacturer's information.

Possible disinfectants:

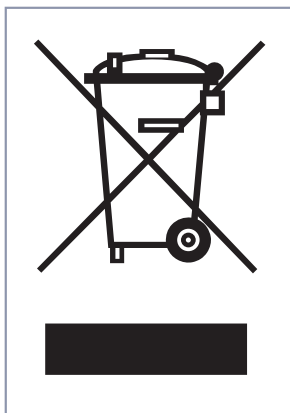
- Ecolab Oxy Wipe disinfectant wipes
- B15 disinfectant wipes orochemie
- Schülke mikrocid sensitive wipes
- Sagrotan disinfection cleaner

9.3 Disposal



DANGER - Before shipping lithium-ion batteries (repair, disposal, etc.), it is mandatory to inform your specialist dealer or the manufacturer, as there is increased danger! Special shipping conditions may require specific packaging, among other things! Your specialised dealer will receive approved transport containers on request - shipping may only be carried out via the specialised dealer! (The regulation only applies to the lithium-Ion battery pack)

Your SOLO and its batteries are durable products. After expiry of the natural service life, you can return these components to AAT Alber Antriebstechnik GmbH or their specialist dealers for disposal.



On this product you will find the symbol of the "crossed out dustbin" according to the WEEE Directive. This marking indicates that these products must be brought to a regional recycling facility when they have reached the end of their useful life.

Please check the applicable legislation in your country for the disposal of this product as the implementation of the WEEE Directive differs in the respective countries and/or does not apply outside of Europe.

Alternatively, you can also return these products to AAT or the competent specialized dealers, where they are collected for correct disposal.

9.4 Long-term storage

If the SOLO is not used for an extended period of time (e.g. over several months), observe the following information:

- Observe the wheelchair manufacturer's information if the wheelchair is to be stored!
- No moisture shall reach the inner parts of the device.
- Store in dry rooms and avoid excessive air humidity. Cover with film, if necessary!
- Protect against permanent exposure to sunlight!
- Unauthorised persons, particularly children, should not have unsupervised access to the storage location of the SOLO!
- Remove the battery back before placing in storage!
- When storing the battery pack, it is mandatory to observe the safety instructions in the chapter "Battery pack and charger"!

If the SOLO is to be put into operation again, clean the wheelchair and the product (chapter "Cleaning").

Check whether a technical safety test must be carried out (refer to chapter "Technical safety testing").

If a technical safety test is not necessary, electrical function, anti-tip supports, brackets and, if necessary, the air pressure of the castors must be checked prior to start-up!

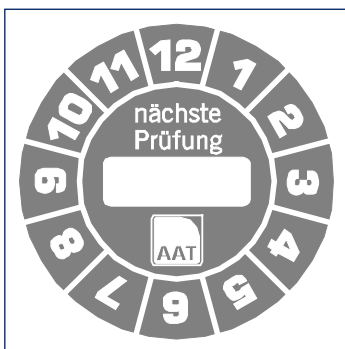
9.5 Technical safety testing



NOTE - Technical safety tests may only be performed by the manufacturer, the AAT field staff or the authorised specialist shop.



NOTE - It is recommended to perform a technical safety test every two years. The inspection plate provides information about the latest date. Tip: After a change in operator/reuse.



The test badge shows when the test is to be carried out at the latest!

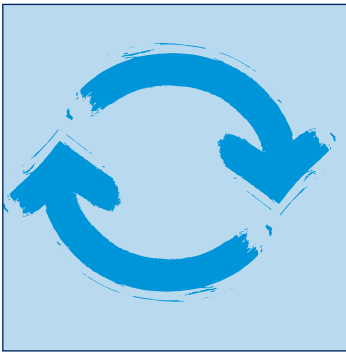
To ensure flawless device function, we recommend carrying out a safety check every 2 years. We also recommend the technical safety test before each reuse.

Training is required in order to be able to perform the technical safety testing. For more information, please visit:
www.aat-online.de/en

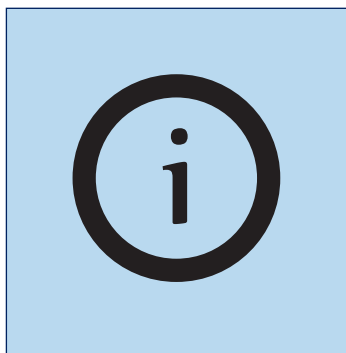
9.6 Reuse (change in operator)

The term reuse is used when the AAT product of patient X is to be used for another patient Y. In addition, there is a reuse when a patient receives a different wheelchair and therefore requires new add-on parts.

Please contact the manufacturer, the AAT field service or the authorised specialist shop.



The SOLO is suitable for reuse.



Prior to any reuse, a technical safety test and cleaning/disinfection procedure should be carried out (refer to the chapters "Technical safety testing" and "Cleaning").

9.7 Corrective action/recall

If new important safety information regarding the handling of your product is available, we will inform you about this. As already stated at the beginning, you will always find the latest version of this user manual on our homepage.

Should any subsequent changes be made to the product or corrective action be taken, we will inform our authorised dealers in writing about all the affected serial numbers. If your product is affected by a recall, you will subsequently be informed about all further steps to be taken.

10 Warning notices, error messages and troubleshooting

10.1 Warning notices



Wheel lock

Both drive wheels

- » Wheel and both arrows are flashing!
- » Adapt the wheels correctly. (Refer to chapter "Drive wheels")



Left drive wheel

- » Wheel and left arrow are flashing!
- » Adapt the wheel correctly. (Refer to chapter "Drive wheels")



Right drive wheel

- » Wheel and right arrow are flashing!
- » Adapt the wheel correctly. (Refer to chapter "Drive wheels")



Coupling disc

Both drive wheels

- » Hub and both arrows are flashing!
- » Engage the wheels correctly. (Refer to chapter "Engaging the drive wheels")



Left drive wheel

- » Hub and left arrow are flashing!
- » Engage the wheel correctly. (Refer to chapter "Engaging the drive wheels")



Right drive wheel

- » Hub and right arrow are flashing!
- » Engage the wheel correctly. (Refer to chapter "Engaging the drive wheels")



Undervoltage

- » Battery is flashing!
- » Charge the battery pack (refer to chapter "Battery pack")



Overvoltage

- » Battery is flashing!
- » Reduce speed (refer to chapter "Driving with the SOLO")



Overload

- » Weight is flashing - Beep!
- » Release the joystick and continue driving taking into account the cause (if necessary, remove or drive around obstacles).



Battery pack temperature

- » Battery is flashing!
- » End the ride with the SOLO and allow to cool down.



Drive wheels temperature

- » Wheel is flashing!
- » End the ride with the SOLO and allow to cool down.



Wheelchair stand-up function

- » Arrow is flashing!
- » Change the wheelchair to seating/normal position.

10.2 Error messages

Refer to chapter "Display indicators - Error messages"

The display symbol indicates which component is affected by a fault (battery pack, drive wheels or operating unit)

Battery pack fault

Code	Error message	Error correction
01	No connection to the battery	Notify the manufacturer!
02	Cell error	Notify the manufacturer!
03	I ² C error	Notify the manufacturer!
04	Parameter data	Establish flight mode, wait 10 sec, establish driving mode. Error still present? Yes: Notify the manufacturer!
05	Software sequence	Establish flight mode, wait 10 sec, establish driving mode. Error still present? Yes: Notify the manufacturer!
06	Wrong command	Establish flight mode, wait 10 sec, establish driving mode. Error still present? Yes: Notify the manufacturer!

Drive wheels fault

Code	Error message	Error correction
01	Brake	Notify the manufacturer!
02	Motor controller	Notify the manufacturer!
03	Electronics	Notify the manufacturer!
04	Parameter data	Notify the manufacturer, the AAT field service, the authorised specialist dealer.
05	Software sequence	Switch off the SOLO, wait 10 sec., switch on the SOLO. Error still present? Yes: Notify the manufacturer!
06	Wrong command	Switch off the SOLO, wait 10 sec., switch on the SOLO. Error still present? Yes: Notify the manufacturer!

Operating unit error

Code	Error message	Error correction
01	Keyboard	Notify the manufacturer, the AAT field service, the authorised specialist dealer.
02	Joystick	Notify the manufacturer, the AAT field service, the authorised specialist dealer.
03	Serial number	Notify the manufacturer, the AAT field service, the authorised specialist dealer.
04	Parameter data	Switch off the SOLO, wait 10 sec., switch on the SOLO. Error still present? Yes: Notify the manufacturer, the AAT field service, the authorised specialist dealer.
05	Software sequence	Switch off the SOLO, wait 10 sec., switch on the SOLO. Error still present? Yes: Notify the manufacturer, the AAT field service, the authorised specialist dealer.
06	Wrong command	Switch off the SOLO, wait 10 sec., switch on the SOLO. Error still present? Yes: Notify the manufacturer, the AAT field service, the authorised specialist dealer.
07	No connection to stand-up wheelchair monitoring	Notify the manufacturer, the AAT field service, the authorised specialist dealer.

10.3 Troubleshooting

Problem	Check and possible remedy
Unable to switch on the SOLO	Interface plugged in? No: Plug it in!
	Spiral cable plugged in? No: Plug it in!
	Is the battery pack empty? Yes: Charge!
	Battery pack in driving mode? No: Establish driving mode.
	Does the problem persist? Yes: Notify the manufacturer, the AAT field service, the authorised specialist dealer.
The SOLO does not move	Charger still plugged in? Yes: Unplug.
	SOLO switched on? No: Switch it on.
	Has the immobiliser been activated? Yes: Deactivate the immobiliser.
	Drive wheels locked? No: Lock.
	Drive wheels engaged? No: Engage.
	Does the problem persist? Yes: Notify the manufacturer, the AAT field service, the authorised specialist dealer.
Unable to load the battery pack	Is the charger connected? No: Connect it correctly!
	Does the problem persist? Yes: Notify the manufacturer, the AAT field service, the authorised specialist dealer.
Impairment of driving behaviour (e.g. increased rolling resistance)	Air pressure checked? No: Check and top up with air if necessary.
	Does the problem persist? Yes: Notify the manufacturer, the AAT field service, the authorised specialist dealer.
Damage on the wheelchair tyres	 WARNING - While changing a wheel, no person may be sitting in the wheelchair!  NOTE - Always replace tyres in pairs. 1. The wheelchair must be standing on a level and solid surface. Before removing a wheel, support the chassis so that it cannot tip over, and secure the wheelchair against tipping over and rolling away. 2. Before repairing the tyre, open the compressed air valve to release the remaining compressed air. Change of tyres: Lifting and fitting the tyre cover must be carried out using the appropriate mounting levers (bicycle accessories). Do not use screwdrivers or other pointed objects as levers.  NOTE - The tyre pressure is indicated on both sides of the tyre. For queries, notify the manufacturer, the AAT field service, the authorised specialist dealer.

11 Warranty and liability

Warranty

AAT Alber Antriebstechnik GmbH assumes the guarantee for the SOLO (except the battery pack) and all accessories, for a period of two years from the date of receipt, that these are free of material and processing defects.

For the lithium-Ion battery pack, always assuming correct care and maintenance, AAT Alber Antriebstechnik GmbH grants a warranty of twelve months from the date of purchase. The guarantee period for the lead gel battery pack is six months from the date of receipt.

The SOLO guarantee does not cover defects that are attributable to:

- damage as a result of excessive strain.
- any damage resulting from careless handling.
- violent damage.
- natural wear parts (driving wheels, wheelchair tyres).
- improper or inadequate maintenance by the customer.
- unauthorised structural alterations or improper use of the SOLO or the accessories.
- use of the SOLO beyond the total permissible weight.
- improper charging of the battery pack.

Liability

As the manufacturer of the SOLO, AAT Alber Antriebstechnik GmbH is not responsible for any damages that may result if:

- The SOLO was improperly handled.
- Repairs, assembly or other work were performed by unauthorised personnel.
- The SOLO was not used in accordance with the user manual.
- No original AAT spare parts or accessories have been fitted or connected to the SOLO.
- Parts of the SOLO were removed.
- Loads were applied to the SOLO beyond the permissible total weight.
- The SOLO was not serviced periodically (in a regular 2-year cycle) by the manufacturer, the AAT field service or an authorised specialist dealer.
- The SOLO has been operated with insufficiently charged batteries.



TRANSLATION OF THE ORIGINAL

EU DECLARATION OF CONFORMITY

We hereby declare under our sole responsibility

AAT Alber Antriebstechnik GmbH

Ehestetter Weg 11

72458 Albstadt / Germany

SRN: DE-MF-000007581

that the pushing and braking aids as described in the following for manual wheelchairs as of serial number **T1601240063**

Risk class: Class I

(in accordance with Annex VIII, Rule 1 and 13)

Wheel hub drive **SOLO L**

BLACK EDITION T1601

Article no. 335400

(Basis-UDI-DI) 4054959T1601PA

Risk class: Class I

(in accordance with Annex VIII, Rule 1 and 13)

Wheel hub drive **SOLO B**

BLACK EDITION T1601

Article no. 335450

(Basis-UDI-DI) 4054959T1601PA

complies with the basic safety and performance requirements and applicable parts of the following regulations and standards.

2017/745/EU (Medical Device Regulation)	ISO 7176-21; ISO 7176-14; EN 12184; EN ISO 21856; EN ISO 10993-1 IEC 60335-2-29; IEC 60335-1
2011/65/EU (Restriction of Hazardous Substances)	EN IEC 63000

The products are marked with **CE** in compliance with the regulations. This declaration is only valid for the products with the article numbers indicated above. This declaration is replaced whenever there is a significant change to the product, product family, standards and laws.

13/02/2024, Albstadt

Date, place

Daniel Mohr, PRRC (MDR 2017/745 Art.15)



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We hereby declare under our sole responsibility

AAT Alber Antriebstechnik GmbH

Ehestetter Weg 11

72458 Albstadt / Germany

SRN: DE-MF-000007581

that the pushing and braking aids as described in the following for manual wheelchairs

as of serial number: T2001240005

Risk class: Class I

(in accordance with Annex VIII,
Rule 1 and 13)

Wheel hub drive **SOLO+**

BLACK EDITION T2001

Article no. 335350

(Basis-UDI-DI) 4054959T2001NK

complies with the basic safety and performance requirements and applicable parts of the following regulations and standards.

2017/745/EU (Medical Device Regulation)	ISO 7176-21; ISO 7176-14; EN 12184; EN ISO 21856; EN ISO 10993-1 IEC 60335-2-29; IEC 60335-1
2011/65/EU (Restriction of Hazardous Substances)	EN IEC 63000

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13/02/2024, Albstadt

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sole responsibility

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72458 Albstadt / Germany

SRN: DE-MF-000007581

that the pushing and braking aids as described in the following for manual wheelchairs
as of serial number **T1601240063**

Risk class: Class I

(in accordance with Annex VIII,
Rule 1 and 13)

Wheel hub drive **SOLO L**

BLACK EDITION T1601

Article no. 335400

(Basis-UDI-DI) 4054959T1601PA

Risk class: Class I

(in accordance with Annex VIII,
Rule 1 and 13)

Wheel hub drive **SOLO B**

BLACK EDITION T1601

Article no. 335450

(Basis-UDI-DI) 4054959T1601PA

combined with the optional accessory **“Attendant control”**

complies with the basic safety and performance requirements and applicable parts of the following
regulations and standards.

2017/745/EU (Medical Device Regulation)	ISO 7176-21; ISO 7176-14; EN 12184; EN ISO 21856; EN ISO 10993-1 IEC 60335-2-29; IEC 60335-1
2011/65/EU (Restriction of Hazardous Substances)	EN IEC 63000

The products are marked with **CE** in compliance with the regulations. This declaration is only valid
for the products with the article numbers indicated above. This declaration is replaced whenever there
is a significant change to the product, product family, standards and laws.

13/02/2024, Albstadt

Date, place

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We hereby declare under our
sole responsibility

AAT Alber Antriebstechnik GmbH

Ehestetter Weg 11

72458 Albstadt / Germany

SRN: DE-MF-000007581

that the pushing and braking aids as described in the following for manual wheelchairs
as of serial number **T1601240063**

Risk class: Class I

(in accordance with Annex VIII,
Rule 1 and 13)

Wheel hub drive **SOLO L**

BLACK EDITION T1601

Article no. 335400

(Basis-UDI-DI) 4054959T1601PA

Risk class: Class I

(in accordance with Annex VIII,
Rule 1 and 13)

Wheel hub drive **SOLO B**

BLACK EDITION T1601

Article no. 335450

(Basis-UDI-DI) 4054959T1601PA

combined with the optional accessory **"Attendant control"** and **"Stand-up wheelchair
function"**

complies with the basic safety and performance requirements and applicable parts of the following regulations and standards.

2017/745/EU (Medical Device Regulation)	ISO 7176-21; ISO 7176-14; EN 12184; EN ISO 21856; EN ISO 10993-1 IEC 60335-2-29; IEC 60335-1
2011/65/EU (Restriction of Hazardous Substances)	EN IEC 63000

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Ehestetter Weg 11

72458 Albstadt / Germany

SRN: DE-MF-000007581

that the pushing and braking aids as described in the following for manual wheelchairs

as of serial number: T2001240004

Risk class: Class I

(in accordance with Annex VIII,
Rule 1 and 13)

Wheel hub drive **SOLO+**

BLACK EDITION T2001

Article no. 335350

(Basis-UDI-DI) 4054959T2001NK

combined with the optional accessory **“Attendant control”**

complies with the basic safety and performance requirements and applicable parts of the following regulations and standards.

2017/745/EU (Medical Device Regulation)	ISO 7176-21; ISO 7176-14; EN 12184; EN ISO 21856; EN ISO 10993-1 IEC 60335-2-29; IEC 60335-1
2011/65/EU (Restriction of Hazardous Substances)	EN IEC 63000

The products are marked with **CE** in compliance with the regulations. This declaration is only valid for the products with the article numbers indicated above. This declaration is replaced whenever there is a significant change to the product, product family, standards and laws.

13/02/2024, Albstadt

Date, place

Daniel Mohr, PRRC (MDR 2017/745 Art.15)



Your contact persons:

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Serial number:



www.aat-online.de/en



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