



# OPERATING MANUAL

TA IQ RWD  
TA IQ FWD  
TA IQ MWD



This product fulfils the requirements of  
Regulation (EU) 2017/745 on medical devices.

*inspire  
joy of life*

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## SYMBOLS KEY

Safety precautions with a coloured background must always be followed!

-  This symbol designates a precaution or recommendation.
- [ ] Refers to an image number.
- ( ) Refers to a functional component in an image.

## INTRODUCTION

Read this manual before you use the wheelchair for the first time and follow the instructions carefully.

If children or teenagers will be using the wheelchair, they should first read this manual along with their parents or guardians before using the chair.

This Operating manual is designed to allow you to enjoy using your electric wheelchair while avoiding accidents.

-  As the wheelchair's accessories may differ from your actual model,

chapters with options that may not be relevant to your particular wheelchair have been included. The order form for your electric wheelchair includes a list of accessories and parts that are available.

PDF files with additional information about our products are available for visually impaired users on our website:  
[www.ta-service.dk](http://www.ta-service.dk).

-  Contact your distributor if you have any questions.

Alternatively, visually impaired users can ask a helper to read the text in the documentation aloud.

Stay up-to-date on product safety along with potential recalls of our products on our website:  
[www.ta-service.dk](http://www.ta-service.dk).

Our electric wheelchair meets the technical and statutory requirements for medical devices. However, if a serious event nonetheless takes place, please write to us at our e-mail address of '[ta-service@ta-service.dk](mailto:ta-service@ta-service.dk)' and contact the Danish Medicines Agency.

## MODELS

This Operating manual applies to the following models:

Model TA IQ RWD  
Model TA IQ FWD  
Model TA IQ MWD

## INDICATIONS / CONTRAINDICATIONS

Seek immediate medical attention if you experience any allergic reactions, redness and/or pressure sores when using this electric wheelchair.

To avoid contact allergies, we recommend only using the wheelchair while wearing clothes.

The numerous features of your electric wheelchair allow it to be used even in case of substantially or severely impaired mobility and ambulation due to structural and/or functional injuries to the lower extremities (including amputation, trauma, musculoskeletal/neuromusculoskeletal movement disorders, e.g. as a result of:

- paralysis
- loss of limbs (amputation of a leg)
- limb defects/deformations


- joint contractures/joint injuries
- or other conditions

When purchasing a particular product, you should furthermore take into account the disabled individual's physical and mental condition, age, home living conditions and personal circumstances.

Any purchase should always be evaluated and approved on a case-by-case basis by a qualified medical professional (medical device or rehabilitation adviser etc.) and be adapted to the specific circumstances associated with the individual's medical history. Moreover, individuals with any of the issues/conditions described in the contraindications may in certain cases experience mental, emotional or physical difficulties when operating any of the listed models.



The electric wheelchair must not be used in case of:

- Cognitive limitations or intellectual disability that precludes independent use of the wheelchair
- Restrictions in activities of daily living in blind or visually impaired individuals, where visual aids or other assistive devices are unable to compensate for the disability
- Individuals under the influence of medication that has a negative effect on the ability to operate the wheelchair (discuss with your doctor or pharmacist first)
- Conditions that prevent an individual from steering the wheelchair independently
- Severe balance and/or sensory disturbances
- The inability to sit

-  Ask your doctor, therapist or authorised distributor about these and any other risks concerning your electric wheelchair.

## **DELIVERY AND ARRIVAL**

All products undergo strict quality control procedures at the factory and are packaged in special cardboard boxes.

-  Nonetheless, we ask that you, immediately upon receipt, inspect your electric wheelchair for any damage that may have occurred during transit – ideally while the hauler is present.
-  Hold onto the wheelchair's packaging in case it becomes necessary to return the chair later.

## **USE ONLY AS INTENDED**

Your electric wheelchair is designed to improve your independent mobility both indoors and outdoors.

## **USAGE**

Do not use the wheelchair without the assembled leg supports and armrests!

The wheelchair is exclusively intended to transport a seated individual – it is not designed to withstand or transport other types of tensile or gravitational forces.

The electric wheelchair should only be used on a solid, even surface and can be used in the following manner:



- Indoors (e.g. in flats or outpatient/residential institutions)
- Outdoors (e.g. paved paths in a park)



- Never expose your wheelchair to extreme temperatures or dangerous environmental conditions, such as e.g. strong sunlight, extreme cold or salt water.
- Sand, dust, dirt or other particles may embed themselves in moving parts, causing the components to stop working.

Your electric wheelchair comes with a variety of options that allow you to adjust it to suit your physical requirements and needs.

National regulations may prohibit the wheelchair from being transported on buses, trains, planes or helicopters.

-  Check with the specific carrier to find out about any restrictions.
-  Before your departure, ask your airline about the specific terms and conditions of transport and the baggage requirements that apply to your country of origin and your holiday destination.



The electric wheelchair must be used strictly in accordance with the specifications and limits indicated in the *Technical data* on page 56.

## ADJUSTMENT

Ensure that any adjustment, configuration or repair work is only performed by an authorised distributor.

The electric wheelchair can be adjusted to fit individual body sizes. Before you use the wheelchair, your authorised distributor should adjust it and instruct you on its features. This adjustment takes into account both your physical limitations and the environment in which you primarily will be using the chair. Before use, make sure that you are satisfied with how the wheelchair is functioning.

If your distributor revises/updates or substantially modifies your electric wheelchair without using the original manufacturer's parts, this may constitute a resale of the wheelchair. This means that your distributor may need to re-assess the terms and conditions of sale and undertake a new risk analysis.

-  To ensure optimal functioning, we recommend routine inspections of your wheelchair's adjustment as well as a new inspection in the event of any lasting changes in your disorder/disability. An adjustment every 6 months is especially recommended in the case of children and adolescents.
-  We recommend regular medical check-ups so that you can actively use the wheelchair on public transport.

## USE WITH PRODUCTS FROM OTHER MANUFACTURERS

In general, any combination of your electric wheelchair with components not supplied by the manufacturer constitutes a material modification of your wheelchair. Contact your authorised distributor to find out whether the manufacturer has approved the combination.

## **WHEN THE ELECTRIC WHEELCHAIR IS USED BY ANOTHER PERSON**

The wheelchair's modular construction allows it to be reconfigured for a new user. Before a new person takes the wheelchair into use, a complete inspection must always be performed.

- ☞ The required hygienic measures, which shall be performed in accordance with a validated hygiene plan, must include disinfection.

The authorised distributor's Service and maintenance manual contains information about the reuse and re-purposing of your wheelchair.

## **PRODUCT LIFE SPAN**

We estimate that the product should have an expected average life span of 5 years insofar as the product is used for the intended purpose and all maintenance and service requirements are adhered to. The product's life span depends on the frequency of use, the environment where it is utilised and the care that it receives. Replacement parts may allow you to prolong its life span. As a rule, replacement parts can still be obtained for up to 5 years after a model has been phased out of production.

- ☞ This stated estimated life span shall not be considered to constitute any expression of the warranty period.

## **BASE POSITION**

When driving downhill, uphill or over obstacles, the settings for seat height, back angle and seat tilt should always be in the base position.

Base position is defined as the following:

- If this is not complied with, there is a risk that the chair flips over
- Seat tilt in a horizontal position (but no more than 10°)
- Seat height at the lowest setting

# OVERVIEW

## Model TA IQ RWD

The overview shows the main components and controls of the electric wheelchair.

No. Name

- (1) Headrest
- (2) Back support
- (3) Armrest
- (4) Seat cushion
- (5) Footplate
- (6) Swivel castor
- (7) Drive/push mode lever
- (8) Locking armrest handle
- (9) Drive wheel
- (10) Control module
- (11) Front headlight
- (12) Nameplate
- (13) Tail light
- (14) Electronics cover



## Model TA IQ FWD

The overview shows the main components and controls of the electric wheelchair.

No. Name

- (1) Headrest
- (2) Back support
- (3) Armrest
- (4) Seat cushion
- (5) Calf support
- (6) Footplate
- (7) Drive wheel
- (8) Front headlight
- (9) Locking armrest handle
- (10) Control module
- (11) Drive/push mode lever
- (12) Nameplate
- (13) Swivel castor
- (14) Electronics cover
- (15) Tail light



## Model TA IQ MWD

The overview shows the main components and controls of the electric wheelchair.

No. Name

- (1) Headrest
- (2) Back support
- (3) Armrest
- (4) Seat cushion
- (5) Calf support
- (6) Footplate
- (7) Front swivel castor
- (8) Drive/push mode lever
- (9) Locking armrest handle
- (10) Drive wheel
- (11) Control module
- (12) Front headlight
- (13) Nameplate
- (14) Tail light
- (15) Rear swivel castor
- (16) Electronics cover



# HANDLING AND CARE OF THE ELECTRIC WHEELCHAIR

## Securing the wheelchair

The electric wheelchair must be secured as follows so that it does not accidentally roll:

1. Move the drive/push mode levers on both sides into the drive setting.
2. Turn off the wheelchair using the control module.

## Operational inspection

The electric wheelchair's operations and safety must be checked each time before use.

-  See the chapter '*Inspection before driving*'.

## Driving characteristics

You can control your wheelchair's driving direction and speed via the joystick (up to its configured maximum speed limit).

# BRAKES

Always brake in a careful and timely manner, especially when driving toward people or going downhill!


## Service brake

The electric motors work as a mechanical brake, stopping the wheelchair smoothly without any jolting until it rolls to a stop.

## Applying the wheelchair's brakes


To gently brake the wheelchair, slowly move the joystick backwards to the start position (neutral).

## Emergency braking

-  To stop the wheelchair more suddenly, move the joystick in the opposite direction.

## Parking brake

The parking brakes only work when the drive/push mode lever, which controls both motors, is moved to the drive position.

-  The parking brakes release automatically once the joystick is used.

## Activating the brakes

The wheelchair should not be able to be pushed while the brakes are engaged.

To apply the brakes, move the drive/push mode levers on both sides approximately 45° toward the wheelchair chassis and into the drive (upright) position [1].

- These levers are designed to be operated by a companion.



## Releasing the brakes

Transfers to/from the electric wheelchair must only be undertaken with the wheelchair turned off and the drive/push mode levers on both sides in the drive setting!

Otherwise, accidentally touching the joystick (power/steering lever) can set the wheelchair in motion. – Risk of an accident!

To release the brakes, move the drive/push mode levers on both sides approximately 45° out toward the shocks into the push position [2].

- These levers are designed to be operated by a companion.



## Main circuit breakers for all electrical functions

As a standard feature, all TA Service wheelchairs manufactured after 26/05/2021 come equipped with a main circuit breaker for all electrical functions, also known as a Flight kit [3].

Removing the key from the Flight kit allows you to interrupt the wheelchair's power supply [4].

This additional safety feature, which cuts off the power supply, is useful when transporting the wheelchair on a plane or securing it from theft.





## Drive/push mode

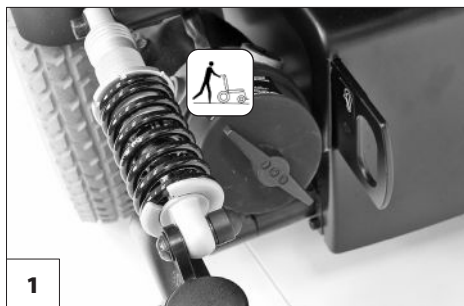
The electric wheelchair should only be set on push mode or pushed for the sake of manoeuvring or in emergency situations. This should only be done on flat terrain, with the chair in a standstill position.

- ☞ In push mode, the electromagnetic brakes are deactivated.
  - Thus, the wheelchair can only be braked by switching to drive mode.
- ☞ Grasp the back support at armrest level to manoeuvre the wheelchair.

### Setting the chair on push mode

1. Turn off the wheelchair using the control module. If the wheelchair is turned on while the lever is guided into the push position, an error message appears on the display and an acoustic alarm sounds.
  - ☞ See the '*Control module*' chapter in the Operating manual.
2. Release the brakes [1].
  - ☞ Follow the instructions in *Releasing the brakes* on page 15.

The wheelchair can now be pushed.



## Setting the chair on drive mode

1. Activate the brakes [2].
  - 👉 Follow the instructions in *Activating the brakes* on page 15.
2. Turn on the control module.
  - 👉 See the 'Control module' chapter in the Operating manual.

Now the electric wheelchair can be driven.



## PREPARATION FOR USE

Perform the following consecutive steps to prepare your electric wheelchair for use.

- ✎ Using the control module, charge the batteries before making your first trip.
- 1. Complete your preparations for driving.  
Move the levers into drive mode [1] to activate the motors.
- ✎ See *Activating the brakes* on page 15.
- 2. Check the position of the thermal fuse (2).
- ✎ The thermal fuse (2) must be depressed.



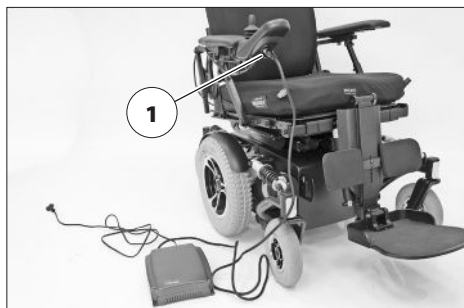
3. Check the position of the control module.
- ✎ For ordinary driving, move the control module forward and inward until it settles into the stop position [3].
4. Turn on the control module.
  - ✎ Depress the on/off button (4) on the control module.
  - ✎ See the '*Control module*' chapter in the Operating manual.



## Inspection before driving

Before driving, you should inspect the following:

- 🔍 The charge level of the battery.
- 🔍 The configuration of the maximum speed setting.
- See the 'Control module' chapter in the Operating manual.



## Charging the battery

Do not place any objects in the socket aside from the battery charger plug!  
– Danger of a short circuit!

The batteries must only be charged in a dry environment.

As the battery charger contains hazardous electricity, carefully protect it from warmth, moisture, water, splashing or dripping liquids and impact. – Danger of a short circuit and life-threatening injury!

Make sure that there is adequate space for air to circulate around the charger (do not cover it up) so that any heat generated can dissipate. – Risk of a fire!

Place the battery charger on a solid surface when charging the batteries.

Never place the battery charger on the wheelchair seat while charging.

- 🔍 When charging, always follow the instructions in the battery charger's operating manual.
1. Park the wheelchair in a safe place.
    - 🔍 Follow the instructions in *Securing the wheelchair* on page 14.
  2. Insert the charger plug into the control module socket (1).

3. Turn on the battery charger/plug the battery charger power cord into an appropriate socket.
  - ☞ The charging process has now started.
- ☞ The battery will not charge if the thermal fuse is turned off (2)!
4. Once the charging process is complete, disconnect the battery charger from the mains and pull the charger plug out of the control module socket.



## Position of the control module

For ordinary driving, move the control module forward and inward [1].

## Description of functions

The push buttons and symbols on the module are all described in detail in the Operating manual in the 'Control module' chapter.

## Swing the control module out to the side of the armrest.

Do not place your hands/arms between the components. – Risk of a crushing injury!

The swing arm [1] allows you to move the control module alongside the armrests [2], enabling you, for example:

- to drive closer up to a table

## Position of the armrest

Risk of an accident if the armrests remain in a vertical or backwards-facing position!

For drive mode, the armrests should be folded down and locked [3].

## Checking the locking feature


Check that the locks are functional by briefly tugging on the armrest.

- 🔧 Follow the instructions in *Checking the armrest's locking feature* on page 30.





# LEG SUPPORTS

Before transferring to the electric wheelchair, it must be secured to prevent accidental movement.

 Follow the instructions in *Securing the wheelchair* on page 14.

## Centralised leg support

To make it easier to climb in and out of the chair, the single footplate [1] or dual footplates [2] can be folded up [3]+[4].

-  Make sure you don't pinch your fingers!
-  Before driving, the footplate(s) should be folded down again [1].






## Electronic height adjustment


When using the leg support, keep your hands away from any movable parts.  
– Risk of a crushing injury!

If you place your feet on the footplate before the leg support has fully descended, there is a risk of a crushing injury!

Make sure that the leg supports have adequate ground clearance!

 The attached leg supports can damage floor coverings or other surfaces!

Both the length and angle or just the length of the leg support can be adjusted electronically using the control module [1]+[2].


 See the 'Control module' chapter in the Operating manual.

## Electronic folding of the footplate

Never touch or handle the adjustment mechanism while a footplate is folding up.  
– Danger of a crushing injury!

Always know where your feet are when a footplate is folding up. – Risk of injury!

The footplate(s) can be raised or lowered electronically using the control module. Make sure that the footplate has completely descended before you place your feet on it, i.e. this feature must never be used to adjust the angle of the footplate (see [3]+[4]).

 See the 'Control module' chapter in the Operating manual.



## Adjusting the footplate height

When adjusting the height of the footplate(s), never touch or handle the adjustment mechanism or the underside of the footplate(s). – Risk of a crushing injury!

Make sure that the leg support and the footplate(s) have adequate ground clearance!

- 🔊 Floor coverings or other surfaces can be damaged when the leg support or footplate(s) are folded down!

Use the control module to raise/lower the leg support to a suitable height [1].

- 🔊 See the 'Control module' chapter in the Operating manual.

## Dual leg support

The angle of the divided leg supports [2] can be adjusted electronically. They can also be swung to the side or completely removed.

## Footplates

To make it easier to transfer to and from the wheelchair, the footplates (4) can be folded up [3] and/or the leg supports can be swung out to the sides.

- 🔊 Make sure you don't pinch your fingers!
- Remove both feet from the footplates.
- 🔊 Before driving, the footplates should be folded down again [2].

## Folding up the footplates

Always remove your feet before folding up the footplates [3].



## Moving a leg support to the side

The leg supports can be swung out to the sides to enable easier transfer to/from the electric wheelchair or to allow you to drive close to e.g. a cupboard, bed, bathtub or similar [1].

- Fold up the footplates to enable the leg supports to be swung out of the way.
  - 🔊 Follow the instructions in *Footplates* on page 26.
- Next, move the appropriate locking lever (2) backwards and swing the associated leg support out to the side [1].

## Returning the leg supports to their original position

To return the leg supports to their original position, swing them forward until you clearly hear them settle into place [3].

- 🔊 Once you hear that the leg supports have swung all the way in, check that the locking mechanism has engaged,
- 🔊 then follow the instructions in *Footplates* on page 26.



## Electronic adjustment of the leg support angle

When using the leg support, keep your hands away from any movable parts.  
– Risk of a crushing injury!

Use the control module to raise [1] or lower [2] the angle of the leg support to a suitable level.

- ☞ See the '*Control module*' chapter in the Operating manual.



# ARMRESTS

Avoid using the armrests [1] to carry or lift the wheelchair.

Driving with the armrest in an upright or backwards position is dangerous [4]!

## Rocker armrests

### Folding up the armrests

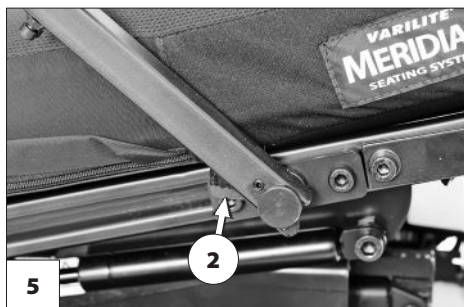
To fold up an armrest, depress the button lock (2). This allows the armrest to be guided upwards [3].

- ⚠ There is an increased risk of accidents if the armrest is swung backwards [4], especially while manoeuvring the chair!

### Folding down the armrests

To fold down an armrest, lower it onto the button lock [5] until you hear the lock (2) engage.

- ⚠ Make sure to keep your hands and other body parts away from the space between the armrest and the button lock!



## The armrest's locking feature

Risk of a crushing injury when the armrest engages with the button lock!

For drive mode, the armrests should be swung forward and down [1].

### Checking the armrest's locking feature

Check that the locks are functional by briefly tugging on the armrest.

- Follow the instructions in *Folding down the armrests* on page 29.
- Once you determine that the button lock has engaged, ensure that the locking feature is working properly by tugging on the armrest.

## Flip-up armrest

### Folding up the armrests

To fold the armrest up, push it backwards [2].

- There is an increased risk of accidents if the chair is operated with the armrest swung backwards [3], especially while manoeuvring!

### Folding down the armrests

Guide the armrests down to the stopper bolt [2].

- Make sure that you keep your hands and other body parts well away from the armrest and the area between the armrest and the stopper bolt!



## Swingable armrest

When swinging the armrest back to the base position, keep your hands away from the surrounding area. – Risk of a crushing injury!

### Swinging the armrest toward the chair

1. To swing the armrest in [2], loosen the tightening handle (1).
2. Tighten the handle (1) again once the armrest [2] is in place.

⚠ There is an increased risk of accidents, especially while manoeuvring!

### Swinging the armrest away from the chair

1. To swing the armrest out to the side [3], loosen the tightening handle (1).

⚠ There is an increased risk of accidents, especially while manoeuvring!

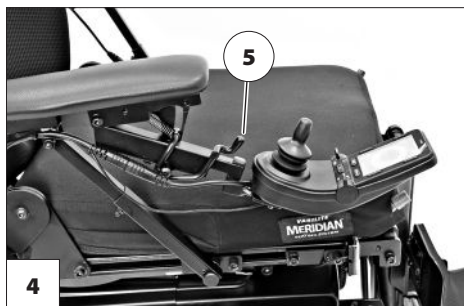
## Drop-down bracket

Whenever the control module is being raised or lowered, always keep your hands and other body parts away from the surrounding area. – Risk of a crushing injury!

### Lowering the control module

Move the locking lever (5) forward to lower the control module [4].

⚠ To return the control module to its original position, carefully pull it upwards until you hear the locking lever engage.



## BACK SUPPORT

Whenever you adjust the back support, always make sure that the electric wheelchair is on a level surface. Otherwise, there is a risk that the wheelchair may flip over on an incline!

### Electronically adjustable back support

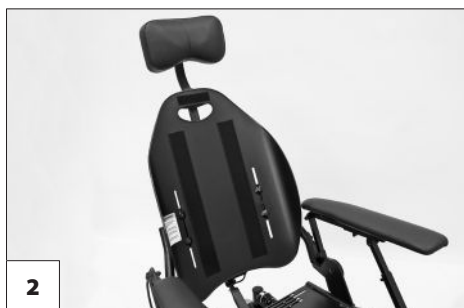
The back support [1] can be adjusted electronically.

- See the '*Control module*' chapter in the Operating manual.

### Back cushion

The back cushion is mounted with a Velcro band to the back support frame and can be removed for cleaning or maintenance [2].

- More detailed information is available in the separate documentation on back cushions.



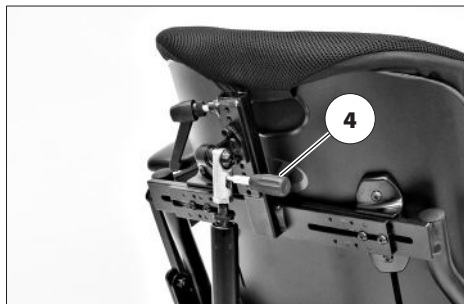


## Mechanically adjustable back support

### Angle adjustment via gas shocks

The angle of the back support [1] is adjustable [2]+[3].

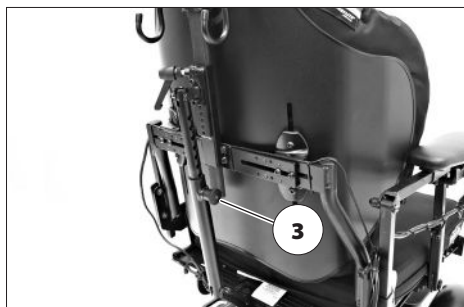
1. Pull down the gas shock's locking lever (4) to adjust the angle of the back support.
2. With the lever (4) in this unlocked position, move the back support to the desired angle.
3. Release the lever (4) to lock the back support into place.



## Manual back support configuration

The angle of the back support is adjustable [1]+[2].

1. Pull out the adjusting bolt (3) to configure the angle of the back support.
  2. With the adjusting bolt (3) pulled out slightly, move the back support to the desired angle.
  3. To lock the back support into position, push the adjusting bolt (3) into the hole that puts the back support at the most suitable height.
- ✎ Move the back support until you can hear the adjusting bolt (3) engage.
  - ✎ Make sure to check that the back support is locked into position.



# SEAT

## Seat cushions

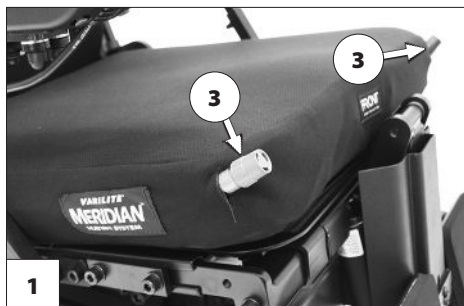
The seat cushion [1] is mounted to the baseplate with a Velcro band and is removable [2].

After cleaning or maintenance, put the seat cushion back on and secure it [1]. – Velcro fastening

## Adjusting seating comfort

The air pressure can be adjusted for improved comfort by opening and closing the valves (3).

- More detailed information is available in the separate documentation on seat cushions.



## Seat rocker

The seat rocker [4] should only be adjusted while the electric wheelchair is on a flat, horizontal surface. There is a risk that the wheelchair flips over on an incline.

Move the leg support(s) into the base position before adjusting the seat rocker.

If the seat rocker is adjusted to an angle greater than 14 degrees, the speed of the wheelchair is automatically reduced and seat lift is limited to no more than 6 cm.

Whenever the back support is adjusted at an angle, there is an increased risk of overturning.

Before driving, ensure that the seat rocker has not been poorly adjusted and that you sit in the chair securely, even on upward or downward sloping terrain.



### Adjustment of an electronic seat rocker

The seat rocker [4] can be controlled either with the control module or a dedicated controller.

- ⚠ Keep your hands and other body parts away from moving parts!
- 📖 See the '*Control module*' chapter in the Operating manual.

## Seat lift

Before adjusting the seat height, make sure that the surrounding area is free of obstructions. – Risk of injury!

Do not touch or come into contact with the bottom of the seat before or during seat height adjustment. – Risk of a crushing injury!

Adjustment of the seat lift must only be done with the wheelchair securely parked on a flat surface.

Do not lower the leg support(s) while the seat is being lifted!

This may damage floor surfaces and the leg supports once the seat lift is lowered.

The seat lift [1] can be adjusted with the control module.

- 🔧 See the '*Control module*' chapter in the Operating manual.
- 🔧 Once the seat is lifted up from the base position, seat tilt is limited to 14° and at seat lift adjustments greater than 6 cm the speed of the wheelchair is limited!
- 🔧 Once the seat returns to the base position, this speed limitation is automatically lifted.



# HEADREST

The headrest is completely removable and both the height and angle are adjustable.

## Adjusting the headrest

To adjust the height of the headrest or remove it, loosen [2] the tightening handle (1).

## Use of the headrest in disability vehicles

This headrest is approved for transport in motorised disability vehicles!

## SECURING BAGS

A dual hook (3) can be attached to the headrest bracket to hang, for example, a bag.

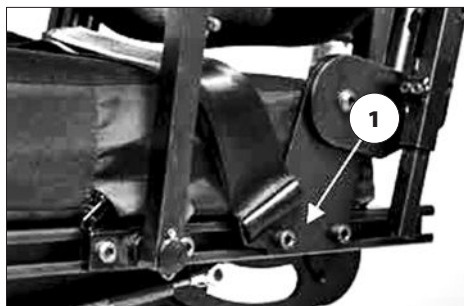


## SAFETY BELT

Make sure no objects get stuck under the belt! – This prevents unpleasant pressure points.

Aftermarket installation of a seat belt must only be done by an authorised repair centre.

The belt must not be used as a restraint system for securing either the user or the wheelchair during transport in a motor vehicle.



The belt is screwed into place on the outside of the chair with 8 mm bolts (1).

The safety belt is designed to stabilise your sitting posture and prevent you from tumbling forward out of the wheelchair.

When fastening the safety belt, pull both ends forward and fit them into the buckle until you hear an audible click.

To open the safety belt, press the release button and pull the ends of the belt away from one another.

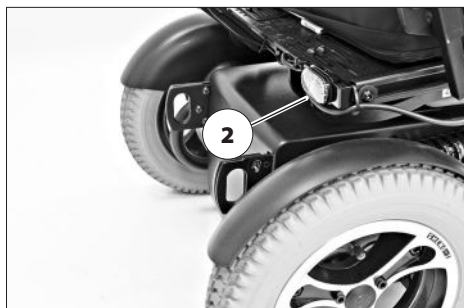
- ⚠ The safety belt can be loosened and must not sit too tight.

## LIGHTS

If used outdoors or on public roads, the electric wheelchair should be equipped with an LED lighting system (1)+(2).

The lights can be operated via the control module.

- ☞ See the '*Control module*' chapter in the Operating manual.
- ☞ If visibility is poor, especially in the dark, the lights should be turned on so that you can see better and are more easily seen.
- ☞ Make sure that the headlights, turn signals, tail lights and reflectors are not covered by loose clothing or other objects attached to the wheelchair.





# TRANSFER AND TRANSPORT

The electric wheelchair must not be lifted by its back support, leg supports, armrest or upholstery!

Keep the seat height and seat tilt in the base position during transport!

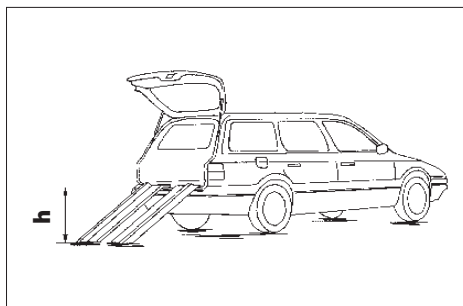
Always turn the electric wheelchair off before lifting it!

Any parts that have been dismantled for loading should be stored in a safe place and carefully reassembled before driving.

No special precautions are needed (e.g. fixation at support points) when transporting the detachable parts.

To conserve space, the following measures may be necessary during vehicular transport:

- Fold up the footplate or remove the leg supports.
- Adjust the back support.



## Loading/unloading

The weight of the electric wheelchair is reduced when you remove detachable components.

The wheelchair can be loaded/unloaded by using a ramp or a lift.

## Ramps and lifts

Make sure to follow the instructions for the operating manual of the ramp or lift.

Note the manufacturer's specifications for the product.

The ramp's maximum indicated load height must be greater than the height (h) from the loading surface of the particular vehicle to the ground.

The load capacity of the ramp or lift must be greater than the electric wheelchair's allowable total weight.

## Personal transport in motor vehicles

Keep the seat height and seat tilt in the base position when transporting passengers in a motor vehicle!

The nameplate on your electric wheelchair indicates whether the chair is approved as a car seat for motor vehicle transport.

- 📖 Learn more about this in *Explanation of the symbols on the nameplate* on page 71.
- 📖 Electric wheelchairs that are not approved as car seats for motor vehicle transport are marked with an additional sticker. – More information is available in *Explanation of the labels on the electric wheelchair* on page 70.

## Securing the wheelchair for transport

The electric wheelchair must now be secured to the anchorage points.

- 📖 Each of the four anchorage points are marked with a symbol [1]+[2].
- 📖 Refer to 'General safety precautions'.
- 📖 When transporting passengers in a motor vehicle, the wheelchair's safety belt system must be used as a restraint device.




## Dahl docking system

If the electric wheelchair is equipped with a Dahl docking system for secure transport, follow the instructions in the docking system's operating manual.

According to ISO 7176-19, carriage of passengers is only permissible with the following restraint systems:

- Four-point restraint system in accordance with ISO 10542
- Dahl Docking Station MK II
- Dahl VarioDock

For information on assembly and operation, refer to the manufacturer's operating manual for the particular restraint system.

 This document accompanies all restraint systems.

Documentation for various restraint systems are also available by clicking the links below the product headings on our website '[www.ta-service.dk](http://www.ta-service.dk)'.

## TYRES


The tyres are made of a rubber compound and may leave marks that are difficult or impossible to remove on some surfaces (incl. synthetic, wood or parquet floors, carpets/rugs and floor coverings). We disclaim any liability for any damage to surfaces owing to wear and tear or chemical reactions with the tyres.

## MAINTENANCE


Improper or neglectful care and servicing of the vehicle shall limit the manufacturer's liability.

### Servicing

The following service plan contains guidelines for servicing the wheelchair.

 The service plan does not indicate the actual amount of work observed to be needed for the vehicle.

## Service plan

WHEN	WHAT	COMMENT
<b>Before driving</b>	<b>In general</b> Check for proper functioning.	Perform the inspection alone or together with a helper.
	<b>Inspecting the electro-magnetic brake</b> Move the drive/push mode levers on both sides to the 'drive' setting.	Perform the inspection alone or together with a helper. If the electric wheelchair can be pushed, then the brake is in need of prompt repair by an authorised repair shop. – Risk of an accident,
especially when driving at night!	<b>Lights</b> Ensure that the lights and reflectors are functioning flawlessly.	Perform the inspection alone or together with a helper.
<b>Every 2 weeks</b> (depending on the overall mileage)	<b>Check the air pressure of the tyres</b> Tyre pressure:  See <i>Technical data</i> on page 56.	Perform the inspection alone or together with a helper. Use a tyre pressure gauge.
	<b>Adjusting screws, screw sets</b> Ensure that all screws and nuts are tight.	Perform the inspection alone or together with a helper. Tighten any loose screws. Visit an authorised repair shop when necessary.
<b>Every 2 months</b> (depending on the overall mileage)	<b>Check the wear on the tyre treads</b> Minimum tread depth = 1 mm	Perform a visual inspection alone or together with a helper. Contact an authorised repair shop to repair or replace worn or damaged tyres.

WHEN	WHAT	COMMENT
<b>Every 6 months</b> (depending on how often the wheelchair is used)	<b>Check</b> <ul style="list-style-type: none"> <li>– Cleanliness</li> <li>– Overall condition</li> </ul>	See <i>Cleaning</i> on page 52. Perform this alone or together with a helper.
Manufacturer's recommendation: <b>Every 12 months</b> (depending on how often the wheelchair is used)	<b>Inspection</b> <ul style="list-style-type: none"> <li>– Vehicle</li> <li>– Battery charger</li> </ul>	Performed by the distributor.

## Main fuse

The thermal fuse's fail-safe button must be pushed in.

The main fuse consists of a thermal fuse (1) that pops out in the event of a current overload.

If the fuse (1) pops out, it must be pushed in again.

- 🔧 If the fuse continues to trip, take the vehicle to an authorised service centre to assess the cause of the issue.
- 🔧 See *Technical data* on page 56.



## Lights

The bulbs (1) + (2) are long-life LED bulbs.

- ✎ Any defective LED bulb must be repaired by an authorised repair shop immediately.

### Running lights

The lights must be adjusted so that the lower edge of the beam lies approx. 3 metres ahead of the wheelchair with the seat tilt down in the base position.

- ✎ Visit an authorised repair shop for adjustment whenever necessary.



## Troubleshooting

Malfunction	Cause	Solution
The control module's battery indicator does not light up when connected.	The battery fuse is defective or improperly mounted.	Change the defective fuse / clean the contacts and insert it properly.
	The power plug is not connecting with the power supply.	Inspect the connectors.
When the wheelchair is turned on, the battery indicator blinks and sounds an acoustic alarm.	One or both of the drive motors are set on push mode.	Move the drive/push mode levers on both sides to drive position.
	The connector on of the drive motors is not properly connected.	Inspect the connectors.
	Electronics issue.	Must be repaired at an authorised repair shop. Push mode. Drive/push mode lever in drive position.
	Other malfunctions.	Refer to 'Troubleshooting' in the control module operating manual.
Lights are not working.	Defective LED bulb.	Let an authorised repair shop perform the repair/replacement.
	Defective control or lighting module.	Let an authorised repair shop perform the repair/replacement.



# **GENERAL SAFETY PRECAUTIONS**

These safety precautions are an excerpt of the *Safety precautions and general instructions for use*, which is available on our website: [www.ta-service.dk](http://www.ta-service.dk).

Do not stick your fingers inside any open wheelchair frame tubing (e.g. when leg supports are removed or the armrest is tilted up). – Risk of injury!

When using the electric wheelchair, especially when stopped or on an ascending/descending slope, assume a safe sitting posture. – Risk of an accident!

To assume a safe sitting posture, your back should be flush with the back cushion and your pelvis should be situated all the way back on the seat.

Transfers from the wheelchair should only be done on sloping terrain in emergencies, with the help of a companion and/or assistant! – Risk of an accident!

The tilt should only be adjusted while the electric wheelchair is on a flat, horizontal surface. Otherwise, there is a risk that the wheelchair may flip over on an incline!

If the angle of the back support is adjusted, the risk of overturning increases.

Before driving, make sure that the seat tilt has not been set improperly and that it facilitates a safe sitting posture.

Before and during any trip, ensure that the leg support(s) have adequate ground clearance. – Risk of an accident!

You should not smoke while using the electric wheelchair.

In direct sunlight, the seat cover/cushion, armrest cushions, leg supports and handles/levers can reach temperatures above 41 °C. – This may injure unprotected skin! Park in the shade to prevent the surfaces on your electric wheelchair from getting hot.

The bag holder (accessory), which can be attached to the headrest bracket, consists of special hooks that allows you to hang e.g. a bag. – The maximum tolerable overall load on the bag hooks is 5 kg.

Only enter/exit the wheelchair when it is turned off and the drive/push mode lever is in drive position;



- otherwise, accidentally touching the joystick can set the wheelchair in motion! – Risk of an accident!

## **Companions**

Your companion should be made aware of any hazardous situations before helping you. Any components that your companion handles on the wheelchair must be securely fastened.

## Exiting the electric wheelchair

Drive the wheelchair as close as possible to where you plan to exit the chair.

-  In connection with this, the precautions in *Securing the wheelchair* on page 14, *Leg supports* on page 24 and *Folding up the armrests* on page 29 must be followed.
-  We recommend that you have someone assist you when exiting the chair.

## Picking up objects

Avoid bending your upper body far forward, to the side or backwards, especially when picking up or setting down heavy objects.

- Risk of the electric wheelchair overturning, especially with narrow seat widths and high seat heights (seat cushion)!

## Driving on gradients or steep roads

As the gradient of the road increases past a certain point, the stability of the wheelchair, braking and steering become increasingly affected due to reduced traction, and overturning becomes a significant hazard.

-  See *Technical data* on page 56.

Never lean into the lower side of slopes and road surfaces or paths with shoulder gradients.

Always drive up and down hills at a low speed.

Drive at an appropriate speed when going up- or downhill.

Avoid switching to push mode when ascending or descending a slope. The automatic brakes do not work when the wheelchair is in push mode.

Avoid pushing the wheelchair up or down a slope.

There is a risk of overturning when driving through curves or turning on an upward or downward slope.

Avoid driving on upward or downward gradients that are poorly paved. Even a small amount of, among other things, ice, water, moss or algae on the road may cause the wheelchair to lose its traction and slide uncontrollably. In such cases, put the joystick in neutral immediately.

The braking force that can be applied to the road is substantially lower when driving down a hill compared to driving on a level road and deteriorates further if the road conditions are poorer (e.g. wet surfaces, snow, gravel, sludge). Apply the brakes carefully and in a controlled manner to avoid hazardous skidding and loss of control of the wheelchair.

When approaching the bottom of the hill, to prevent a hazardous sudden stop, make sure the footplate(s) are high enough to clear the ground.

Road surfaces with a side gradient (e.g. pavements with a gradient on each side) cause the wheelchair to drift toward the lower side of the surface. You or your companion can compensate for this by steering in the opposite direction.

## Manoeuvring over obstacles

The ability of the wheelchair to manoeuvre over obstacles is correlated, among other things, with the slope of the road surface and the position of the leg support.

Manoeuvring over an obstacle is hazardous!

- Danger of overturning the wheelchair!

Over an obstacle is a special risk situation, where you must take into account a number of different safety precautions involving

e.g. slopes and driving surfaces with side gradients.

Drive around obstacles, such as cracks or grooves in the roadway, railway tracks, sewer covers or other road hazards, as much as possible.

Always drive toward smaller obstacles, such as ledges/edges, slowly and at a straight angle (90°). Drive forward and approach to within approx. 0.5 m of the obstacle so that the front and rear tyres pass over the obstruction at the same time. If you fail to do this, your wheelchair may fall over and eject you!

Maintain a safe enough distance between yourself and drop-offs, stairs, slopes, embankments etc. that you have sufficient space to react, brake and turn.

If possible, get one or more helpers to lift you out of the wheelchair and carry you to your destination.

If you drive down a step (e.g. a pavement curb), it's easy to fall out of the wheelchair if your footplate(s) and leg support hit the road surface. Be extremely attentive when crossing railway tracks. – Accidental deviation from your course!

It is impossible to navigate stairs safely with ordinary electric wheelchairs.

## Electrical system

Improper and/or inappropriate modifications to the driving characteristics may affect the wheelchair and its safety. – Risk of an accident!


The electrical control system of the wheelchair must never be tampered with.

If the electric wheelchair is acting strangely or driving uncontrollably, put the joystick in neutral immediately and/or turn off the wheelchair.

## Carriage in public transport

Your electric wheelchair is not designed for passenger transit in public transit vehicles. There may be limitations. We recommend using a seat that is affixed to the public transit vehicle.

If seated transport in the wheelchair is nonetheless unavoidable, the following precautions must be observed:

- Use the space reserved by the public transit company for disabled passengers.
  - Before parking the wheelchair, ensure that you are compliant with the regulations of the transit company.
  - Park your wheelchair in the reserved space so that it is facing the direction of travel.
  - The wheelchair should be parked in the reserved space with the backrest flush against a supportive structure.
  - One side of the wheelchair should be likewise be supported by an immovable structure so that the chair does not slide during an accident or sudden braking manoeuvre.
  - Ensure that the motors are set on drive and that the parking brake is engaged.
-  Follow the instructions in *Parking brake* on page 14.

## Driving on public roads

Comply with all national regulations for driving on public roads and ask your authorised distributor about any required accessories.

The electric wheelchair can be delivered with accessory lights. The system consists of 2 front headlights, 2 tail lights and mounting brackets.

In poor visibility or at night, we recommend installing the lights and driving with them on, both to improve your visibility and make you more easily seen.

- 🔧 When driving on public roads, the driver is responsible for the functional and operational safety of the wheelchair.
- 🔧 Always comply with any applicable traffic regulations when driving on public roads.
- 🔧 If you drive at night, we recommend wearing bright, conspicuous clothing so that you are more easily seen.
- 🔧 Avoid using carriageways and bike paths when driving at night.
- 🔧 Make sure that the lights are not covered by loose clothing or other items attached to the wheelchair.

## CLEANING

Always turn off the electric wheelchair before beginning any cleaning.

Non-ionic detergents, solvents and especially alcohol may react with synthetic coverings.

Never rinse or pressure rinse your electric wheelchair. – Danger of a short circuit!

Cushions and coverings are usually supplied with cleaning instructions (care tag).

- 🔧 Follow the instructions in *Explanation of the washing instruction symbols* on page 72.

Otherwise, the following precautions apply:

- 🔧 Clean the cushions with warm water and washing-up liquid.
- 🔧 Stains can be removed with a sponge or soft brush.
- 🔧 Use ordinary detergent to remove stubborn stains.
- 🔧 If the wheelchair is equipped with a Varilite Back System, both the seat cover and back cushion can be machine washed. Follow the instructions.

After washing, damp wipe with clean water and leave to dry.

Clean the chassis and the wheels with a mild cleaning agent, then dry thoroughly.

- 🔧 Check the frame for corrosion and other damage.
- 🔧 Synthetic materials must only be cleaned with warm water and a neutral detergent or brown soap.
- 🔧 If you use an ordinary synthetic detergent, follow the manufacturer's instructions.

Always keep the lights clean and check that they are functioning properly before driving.

- ☞ Always protect the electrical components from water and moisture!
  - Sprayed water can damage the electronics and control module.

Water-soluble, silicon-free detergents and cleaning products should be used.

- ☞ Follow the instructions from the product's manufacturer.

Do not use aggressive cleaning agents, such as solvents, or stiff brushes etc.

More detailed information about cleaning and care is available on our website:

*[www.ta-service.dk](http://www.ta-service.dk).*

## **Treated surfaces**

The unique surface coating on the wheelchair provides the best possible protection against corrosion.

Occasional lubrication of the moving parts with a small amount of lubricating oil, can improve their performance.

## **Disinfection**

If the product is used by multiple individuals (e.g. at a care institution), ordinary disinfectant should be used.

- ☞ Clean the cushions and handles/levers prior to disinfecting them.
- ☞ Spraying and wiping with an approved, recognised disinfectant is permitted.

Information about tested, recognised disinfectants and disinfection procedures can be obtained from your national authority for public health protection.

- ☞ Disinfectants may damage certain surfaces and impair the performance of components over time.
- ☞ Follow the instructions from the product's manufacturer.

# REPAIRS

In principle, repairs should only be performed by authorised distributors.

## Assembly

You can have complete confidence in your distributor when it comes to repairs. He or she has been instructed on how to perform this work.

## Service

If you have any questions or need assistance, please contact your distributor who can advise you and carry out service and repairs.

## Replacement parts

Replacement parts can only be obtained from your distributor. In case of repair, only original replacement parts may be used!

- ⚠ Components from other manufacturers may cause malfunctions.

Your distributor has a list of replacement parts with associated part numbers and schematics.

To ensure you receive the right replacement parts, always provide the correct serial number (SN) of your electric wheelchair! This number can be found on the nameplate.

For all repairs performed on the wheelchair by the service centre, supplemental information, such as assembly/operating information from the Operating Manual, must be provided, and the date of any modifications must be noted and passed on when replacement parts are ordered.

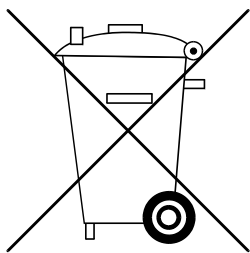
This prevents inaccurate orders when replacement parts are subsequently ordered.

## Precautions for long-term storage

The following precautions are necessary if the wheelchair will not be used for a longer period of time:

- 🔋 Charge the batteries for 16 hours at least once a month.
- 🌡 The prescribed storage temperatures must be ensured.
- 📖 Follow the instructions in *Technical data* on page 56.

## DISPOSAL



The wheelchair must be disposed of in accordance with applicable national regulations.

Contact your municipality for information about your local environmental recycling centre.

## Operating manual for distributors

On our website '[www.ta-service.dk](http://www.ta-service.dk)' you can find a Service and Maintenance Manual for this electric wheelchair that includes the following information:

1. Configuration that can be performed with tools
2. Step-by-step descriptions of procedures for important repairs
3. Notes about changes to specific models
4. A checklist for the annual inspection

This includes mandatory functional checks and guidelines associated with the performance of the inspection work.

✎ However, the list does not cover the actual care required by the vehicle.

Once the annual inspection has been properly performed, document the completed inspection in the Operating Manual.

A template for additional inspection documentation can be copied from the Service and Maintenance Manual as needed. If this is utilised, it should be attached to the Operating Manual.

## Programming driving characteristics

The electric wheelchair's driving characteristics can be configured via a programming unit.

✎ Please refer to the '*Service and maintenance manual*'.

The wheelchair's driving characteristics should routinely be adapted to the particular user's needs and skill level.

✎ The programming must be customised for the user. The individual's reflexes, general health condition and physical and mental capabilities must all be taken into account. Consultation with the user's doctor or therapist can be extremely helpful in this context.

✎ Any modification from the manufacturer's default programming settings may increase the risk of accidents.

✎ Potential risk of overturning!

## TECHNICAL DATA

All the information in the 'Technical data' chapter applies to the standard model.

Measurement tolerances  $\pm 15$  mm,  $\pm 2^\circ$

Calculating the max. allowable user weight:

The overall load capacity can be calculated by adding the weight of the empty electric wheelchair to the max. allowable user weight.

Added weight due to aftermarket parts or baggage lowers the max. allowable user weight.

Example:

A user wants to take along baggage weighing 5 kg. This reduces the max. allowable user weight by 5 kg.

### Air pressure for pneumatic tyres

The max. air pressure is listed on both sides of the tyre.

Air pressure - swivel castor

Standard:

2.0 bars = 29 psi

Air pressure - drive wheel

Standard:

3.0–4.0 bars = 44–58 psi

## Operating range

Our indicated nominal data are realistic, provided that ISO 7176-4 is fully complied with.

The operating range largely depends on the following factors:

- Condition of the battery
- User weight
- Driving speed
- Driving behaviour
- Road condition
- Driving conditions
- Ambient temperature

The operating range is severely limited by:

- Frequent driving up ramps
- Batteries with deficient charging capacity
- Low ambient temperatures (e.g. in winter)
- Frequent starting and stopping (e.g. in shopping centres)
- Ageing sulphated batteries
- Sudden forced steering manoeuvres
- Reduced driving speed (especially at pedestrian speeds)

In practice, the operating range that usually can be achieved under normal conditions is typically reduced by 40–80% relative to the nominal value.

### Driving characteristics when negotiating gradients

For safety reasons, the wheelchair should only be operated without a driver on upward or downward slopes exceeding the allowable limits (e.g. on ramps)!



## Applicable standards

The electric wheelchair fulfils the following standards:

- EN 12184: 2014
- ISO 7176-8: 2014
- ISO 7176-19: 2008
  - 🔍 Crash test evaluations, where the wheelchair was attached via the vehicle's braking system, were performed in accordance with the testing methods in Annex D.
- ISO 10542-5: 2008

The crash test was performed and approved with the following restraint systems:

- Four-point restraint system in accordance with ISO 10542
- Dahl Docking Station MK II
- Dahl VarioDock
  - 🔍 The applicable product documentation accompanies the products.
  - 🔍 The Dahl docking system's transport safety was evaluated.

The models are categorised as Type class B pursuant to the EN 12184 standard.

Our modules and components fulfil the requirements of EN 1021-2 for ignitability resistance.

# Specifications in conformance with ISO 7176-15 for model TA IQ RWD

	min.	max.
Overall length (measured with a 0° seat tilt)	940 mm	1060 mm
Overall width	630 mm	720 mm
Total weight		300 kg
User weight (incl. payload)		140 kg
User weight <small>When the product is used for seating in a motor vehicle (Dahl docking system, crash tested in accordance with ISO 7176-19)</small>		136 kg
Weight of the heaviest part		26 kg
Actual seat depth	250 mm	590 mm
Actual seat width	370 mm	550 mm
IQ Junior	250 mm	300 mm
Seat surface height at front edge (without seat cushion) with 0° seat tilt	380 mm	680 mm
Electronic seat angle	0°	45°
Electronic seat lift		300 mm
Angle of mechanical back support <small>(measured based on a vertical position from the seat plate)</small>	80°	165°
Angle of electronic back support <small>(measured based on a vertical position from the seat plate)</small>	80°	165°
Back support height	540 mm	665 mm
Leg supports for the seat <small>(Thigh length, measured without the seat cushion)</small>	370 mm	580 mm
Static stability driving downhill	19.6°	19.6°
Static stability driving uphill	14.3°	19.6°
Static stability side-to-side	13.0°	19.6°
Dynamic stability driving uphill		10°
Angle - leg supports/seat surface	90°	180°
Height of armrest from seating surface (without seat cushion)	185 mm	285 mm
Back support to front edge of armrest	370 mm	475 mm
Obstacle clearance		80 mm
Min. turning radius <small>(measured with 0° seat tilt)</small>	650 mm	
Weight of test dummy (ISO 7176-8)		140 kg

	min.	max.
Top forward driving speed <small>(depends on equipment)</small>	6 km/h	12 km/h
Minimum braking distance at top speed	2810 mm	
Operating range (at 6 km/h) <small>(depends on battery capacity)</small>		40 km
Operating range (at 10 km/h and 12 km/h) <small>(depends on battery capacity)</small>		35 km
Axle, horizontal position	– mm	– mm

Supplementary technical data for model TA IQ RWD

	min.	max.
Noise level		70 dB(A)
IP class	IPX4	
Min. turning radius	1150 mm	
Drive controller output	24 V/120 A	
Engine output		2 x 350 W
Main fuse	80 A	
Lights (accessory)	24V LED type	
Payload		5 kg
Front axle pressure (max. allowable)		150 kg
Rear axle pressure (max. allowable)		200 kg
Ground clearance	70 mm	
Empty weight (with batteries)	150 kg	160 kg
Empty weight (without batteries)	99 kg	109 kg
Overall height	930 mm	1100 mm

Transport dimensions

Length (without leg supports)	820 mm	
Width	630 mm	720 mm
Height <small>(Back folded onto the seat and seat cushion removed from the seat plate and placed on top of the back support)</small>	700 mm	

Thermodynamic data

Environmental temperature range	-20 °C to +50 °C
Storage temperature with batteries	-20 °C to +50 °C

Swivel castor

200 x 50 mm diameter (8")	Tyres, max. 2.0 bars (29 psi/200 kPa) puncture-proof
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	min.	max.
<u>Drive wheel</u>		
364 x 75 mm diameter (14" x 3.5")	Tyres, max. 2.5 bars (36 psi/250 kPa) puncture-proof	

<u>Batteries</u>		
2 x 12 V 75 Ah (5 h) / 80Ah (20 h)	Enclosed, maintenance-free	
Max. battery dimensions (L x W x H)	260 x 168 x 215 mm	
Charging current		8 A

# Specifications in conformance with ISO 7176-15 for model TA IQ FWD

	min.	max.
Overall length (measured with a 0° seat tilt)	985 mm	1100 mm
Overall width	630 mm	720 mm
Total weight		300 kg
User weight (incl. payload)		140 kg
User weight <small>When the product is used for seating in a motor vehicle (Dahl docking system, crash tested in accordance with ISO 7176-19)</small>		136 kg
Weight of the heaviest part		26 kg
Actual seat depth	250 mm	590 mm
Actual seat width	370 mm	550 mm
IQ Junior	250 mm	300 mm
Seat surface height at front edge (without seat cushion) with 0° seat tilt	380 mm	680 mm
Electronic seat angle	0°	45°
Electronic seat lift		300 mm
Angle of mechanical back support <small>(measured based on a vertical position from the seat plate)</small>	80°	165°
Angle of electronic back support <small>(measured based on a vertical position from the seat plate)</small>	80°	165°
Back support height	540 mm	665 mm
Leg supports for the seat <small>(Thigh length, measured without the seat cushion)</small>	370 mm	580 mm
Static stability driving downhill	15.9°	19.6°
Static stability driving uphill	19.6°	19.6°
Static stability side-to-side	13.5°	19.0°
Dynamic stability driving uphill		10°
Angle - leg supports/seat surface	90°	180°
Height of armrest from seating surface (without seat cushion)	185 mm	285 mm
Back support to front edge of armrest	370 mm	475 mm
Obstacle clearance		100 mm
Weight of test dummy (ISO 7176-8)		140 kg
Top forward driving speed <small>(depends on equipment)</small>	6 km/h	12 km/h

	min.	max.
Minimum braking distance at top speed	2620 mm	
Operating range (at 6 km/h) <small>(depends on battery capacity)</small>		40 km
Operating range (at 10 km/h and 12 km/h) <small>(depends on battery capacity)</small>		35 km
Axle, horizontal position	– mm	– mm

Supplementary technical data for model TA IQ FWD

	min.	max.
Noise level		70 dB(A)
IP class	IPX4	
Min. turning radius	1170 mm	
Drive controller output	24 V/120 A	
Engine output		2 x 350 W
Main fuse	80 A	
Lights (accessory)	24V LED type	
Payload		5 kg
Front axle pressure (max. allowable)		200 kg
Rear axle pressure (max. allowable)		150 kg
Ground clearance	70 mm	
Empty weight (with drive batteries)	150 kg	160 kg
Empty weight (without drive batteries)	99 kg	109 kg
Overall height	930 mm	1100 mm

Transport dimensions

Length (without leg supports)	820 mm	mm
Width	630 mm	720 mm
Height, with standard upholstery <small>(Back folded onto the seat and seat cushion removed from the seat plate and placed on top of the back support)</small>	700 mm	mm

Thermodynamic data

Environmental temperature range	-20 °C to +50 °C
Storage temperature with drive batteries	-20 °C to +50 °C

Swivel castor

200 x 50 mm diameter (8")	Tyres, max. 2.0 bars (29 psi/200 kPa) puncture-proof
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	min.	max.
<u>Drive wheel</u>		
364 x 75 mm diameter (14" x 3.5")	Tyres, max. 2.5 bars (36 psi/250 kPa) puncture-proof	

<u>Batteries</u>		
2 x 12 V 75 Ah (5 h) / 80Ah (20 h)	Enclosed, maintenance-free	
Max. battery dimensions (L x W x H)	260 x 168 x 215 mm	
Charging current		8 A

# Specifications in conformance with ISO 7176-15 for model TA IQ MWD

	min.	max.
Overall length (measured with a 0° seat tilt)	985 mm	1100 mm
Overall width	630 mm	720 mm
Total weight		305 kg
User weight		140 kg
User weight <small>When the product is used for seating in a motor vehicle (Dahl docking system, crash tested in accordance with ISO 7176-19)</small>		136 kg
Weight of the heaviest part		26 kg
Actual seat depth	250 mm	590 mm
Actual seat width	370 mm	550 mm
IQ Junior	250 mm	300 mm
Seat surface height at front edge (without seat cushion) with 0° seat tilt	380 mm	680 mm
Electronic seat angle	0°	45°
Electronic seat lift		300 mm
Angle of mechanical back support <small>(measured based on a vertical position from the seat plate)</small>	80°	165°
Angle of electronic back support <small>(measured based on a vertical position from the seat plate)</small>	80°	165°
Back support height	540 mm	665 mm
Thigh control for seat <small>(Thigh length, measured without the seat cushion)</small>	370 mm	580 mm
Static stability driving downhill	13.8°	19.6°
Static stability driving uphill	14.7°	19.6°
Static stability side-to-side	14.6°	16.1°
Dynamic stability driving uphill		10°
Angle - leg supports/seat surface	90°	180°
Height of armrest from seating surface (without seat cushion)	185 mm	285 mm
Back support to front edge of armrest	370 mm	475 mm
Obstacle clearance		80 mm
Weight of test dummy (ISO 7176-8)		140 kg
Top forward driving speed <small>(depends on equipment)</small>	6 km/h	12 km/h

	min.	max.
Minimum braking distance at top speed	2800 mm	
Operating range (at 6 km/h) <small>(depends on battery capacity)</small>		40 km
Operating range (at 10 km/h and 12 km/h) <small>(depends on battery capacity)</small>		35 km
Axle, horizontal position	– mm	– mm

## Supplementary technical data for model TA IQ MWD

	min.	max.
Noise level		70 dB(A)
IP class	IPX4	
Min. turning radius	1150 mm	
Drive controller output	24 V/120 A	
Engine output		2 x 350 W
Main fuse	80 A	
Lights (accessory)	24V LED type	
Payload		5 kg
Front axle pressure (max. allowable)		105 kg
Rear axle pressure (max. allowable)		210 kg
Ground clearance	70 mm	
Empty weight (with drive batteries)	155 kg	165 kg
Empty weight (without drive batteries)	104 kg	114 kg
Overall height	930 mm	1100 mm

### Transport dimensions

Length (incl. support wheel, without leg supports)	880 mm	
Width	630 mm	720 mm
Height, with standard upholstery <small>(Back folded onto the seat and seat cushion removed from the seat plate and placed on top of the back support)</small>	700 mm	

### Thermodynamic data

Environmental temperature range	-20 °C to +50 °C
Storage temperature with drive batteries	-20 °C to +50 °C

### Swivel castor

200 x 50 mm diameter (8")	Tyres, max. 2.0 bars (29 psi/200 kPa) puncture-proof
---------------------------	---

	min.	max.
<u>Drive wheel</u>		
364 x 75 mm diameter (14" x 3.5")	Tyres, max. 2.5 bars (36 psi/250 kPa) puncture-proof	

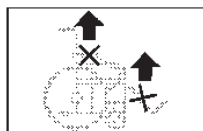
<u>Drive batteries</u>		
2 x 12 V 63 Ah (5 h) / 80Ah (20 h)	Enclosed, maintenance-free	
Max. battery dimensions (L x W x H)	260 x 168 x 215 mm	
Charging current		8 A

## Explanation of the labels on the electric wheelchair



### Attention!

Read the Operating Manual and attached documentation.



Do not lift the electric wheelchair by the armrests or leg supports.

Do not lift the wheelchair by any detachable parts.



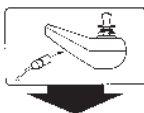
Drive mode



Push mode



Only push the wheelchair on a level surface.



Information about the charging plug.



This electric wheelchair is **not** approved for use as a motor vehicle seat.



Warning about the risk of a crushing injury – Do not place your hands/arms between the components.
















Operation in public transit vehicles – Turn off or switch to driving program 1.



Max. allowable user weight if approved for use as a motor vehicle seat.

# Explanation of the symbols on the nameplate

	Manufacturer
	Order number
	Serial number
	Date of production
	Allowable user weight
	Allowable total weight
	Allowable axle pressure
	Allowable upward gradient
	Allowable downward gradient
max. ... km/h	Max. allowable speed
	The product is approved for use as a car seat.
	Max. allowable user weight if approved for use as a motor vehicle seat.
	The product is <b>not</b> approved for use as a car seat.
	Medical device

## Explanation of the washing instruction symbols

(The symbols are in compliance with European standards.)



Wash on gentle cycle at the maximum indicated temperature (°C).



Wash on normal cycle at the maximum indicated temperature (°C).



Hand wash only.



Do not bleach.



Not suited for the dryer.



Do not iron.



Do not dry clean.



# DOCUMENTATION OF SERVICING

## Vehicular data:

Model:

Packing slip no.:

Serial no. (SN):

### Recommended safety inspection: 1st year (after no later than 12 months)

Stamp of speciality dealer:

Signature:

Location, date:

Next safety inspection in 12 months

Date:

### Recommended safety inspection: 2nd year (after no later than 12 months)

Stamp of speciality dealer:

Signature:

Location, date:

Next safety inspection in 12 months

Date:

### Recommended safety inspection: 3rd year (after no later than 12 months)

Stamp of speciality dealer:

Signature:

Location, date:

Next safety inspection in 12 months

Date:

### Recommended safety inspection: 4th year (after no later than 12 months)

Stamp of speciality dealer:

Signature:

Location, date:

Next safety inspection in 12 months

Date:

### Recommended safety inspection: 5th year (after no later than 12 months)

Stamp of speciality dealer:

Signature:

Location, date:

Next safety inspection in 12 months

Date:

## **WARRANTY/GUARANTEE**

Any lack of compliance with the Operating manual or unprofessionally performed maintenance work, especially with respect to technical modifications and add-ons (installed parts) without our express consent shall not only void this warranty/guarantee, but also nullify our general product liability.

The product comes with a 2-year warranty.

However, the warranties for the batteries and charger are 1 year each.

The warranty period begins on the date of purchase.

For any warranty/guarantee claims, please contact your distributor and present the following PROOF OF WARRANTY certificate along with any necessary information about the model, packing slip number, date of delivery and serial number (SN).

The serial number (SN) is visible on the nameplate.

Acceptance of warranty/guarantee claims is contingent on the proper use of the product, the use of original replacement parts from an authorised distributor and the routine performance of maintenance and inspection.

The warranty/guarantee does not cover surface damage, wheel inner tubes or tyres, damage due to loose nuts or screws, or damaged bores and screw holes resulting from repeated assembly of the chair.

Likewise, the warranty/guarantee does not cover damage to motors or electronics due to unprofessional cleaning with steam-cleaning equipment or deliberate or accidental exposure of the components to water.

No liability shall be assumed for defects or malfunctions due to sources of radiation such as high-transmission mobile phones, stereo equipment and other powerful sources of noise or interference in excess of standard specifications.

This Operating manual must be passed on to any new owner or user of the product.

Please refer to our website '[www.ta-service.com](http://www.ta-service.com)' to evaluate our products.

We reserve the right to make technical modifications for the purpose of product improvement.

**Proof of warranty**

Please complete! Can copy this as needed and send it to your distributor.

# Warranty/guarantee

Model name:

Packing slip no.:

SN (refer to the nameplate):

Date of delivery:

Distributor's stamp:

**Service documentation upon sale or transfer**

**Vehicular data:**

Serial no. (SN):

Model:

Packing slip no.:

Stamp of speciality dealer:

Signature: \_\_\_\_\_

Location, date: \_\_\_\_\_

\_\_\_\_\_

Next safety inspection in 12 months

Date: \_\_\_\_\_



### **Manufacturer:**

📍 TA Service A/S  
Centervej Syd 2  
DK-4733 Tappernøje  
Denmark

✉ ta-service@ta-service.dk  
T: +45 56 72 57 77  
[www.ta-service.dk](http://www.ta-service.dk)

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### **Distributor**

Please find local distributors at  
[www.ta-service.dk](http://www.ta-service.dk)