

en

Electric wheelchair

Model TA IQ RWD

Model TA IQ FWD

Model TA IQ MWD

Operating manual



CE

TA[®]
SERVICE



Users with visual impairments can find the PDF-files together with further information on our website:

< *www.ta-service.dk* >.

☞ Contact your specialist dealer when required.

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

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MEANING OF THE APPLIED MARKERS

Safety instructions with a coloured background are mandatory and need to be observed under any circumstance!

-  This symbol indicates tips and recommendations.
- [] Reference to a picture number.
- () Reference to a function element within a picture.

INTRODUCTION

Read and observe this manual before first operation.

Children and juveniles should read this documentation together with their parents respectively a supervisor or accompanying person before first use.

This operating manual is to help you get accustomed to the handling of the electric wheelchair as well as to prevent accidents.

-  Please note that the illustrated equipment variants can deviate from your model.

We have therefore also listed chapters with options that might not be applicable for your individual electric wheelchair. A list of the available options and accessories can be viewed in the order form of your electric wheelchair.

Inform yourself regularly about product safety and possible recalls of our products in the < Infozentrum > on our website: < www.ta-service.dk >.

We have developed an electric wheelchair that complies with the technical and governmental regulations of medical devices. For information about a severe accident that can still not be ruled out completely,

please use our E-mail address < ta-service@ta-service.dk > and inform the responsible governmental agency of your country.

LIST OF MODELS

This operating manual applies to the following models:

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

INDICATIONS / CONTRAINDICATIONS

In case of allergic reactions, skin rashes and/or pressure sores during the use of the electric wheelchair sores contact a doctor immediately.

In order to prevent contact allergies, we recommend to use the electric wheelchair only when wearing clothes.

The functional diversity of your electric wheelchair permits application in situations with extreme to fully pronounced limitations in mobility/walking in case of structural and/or functional damages to the lower extremities (u.o. amputation, after-effects of injuries, musculoskeletal/neuromusculoskeletally caused motion disorders e.g. through:

- paralysis,
- loss of limbs (leg amputation),
- defective/deformed limbs,
- joint contractures/-damages,
- other diseases.

Also to be observed for individual provision are the physical and psychological state, age of the handicapped person as well as the personal living condition and private environment.

Every provision, case by case should be checked, tested and aligned to the individual ability limitations caused by the defined disability through an educated person (medical device consultant, rehabilitation consultant u.o.). This also includes that people that show a counter indications to the named problems in some cases need to give proof of the cognitive, mental and moral ability to operate one of the models shown in the list of models.

The electric wheelchair may not be used in cases of:

- Cognitive limitations and mental retarding, that rule out the independent use of the electric wheelchair.
 - Blind people and people with limited eyesight that cannot be compensated with other aids and lead to constraints in daily life.
 - Influence of impairing medications (ask your doctor or pharmacist).
 - Circumstances that prevent the individual use of the control device.
 - Extreme limitations in balance and/or disorders in perception.
 - Disability to sit.
-  To these and other possible risk concerning your electric wheelchair ask your doctor, therapist or specialist dealer.

Working table

In case of unexpected symptoms that might be associated with the use of the working table, contact a doctor immediately.

The indications/counterindications listed in this chapter do not replace the indications/counterindications for the use of the electric wheelchair.

The table control may not be used in cases of:

- People with claustrophobic tendencies.

ACCEPTANCE

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

-  However, we request that you check the electric wheelchair for possible transport damage immediately on receipt – preferably in the presence of the carrier.
-  The packaging of the electric wheelchair should be stored for a further transport that might become necessary.

INTENDED PURPOSE

The electric wheelchair serves to improve independent mobility indoors and outdoors.

USE

Never use the electric wheelchair without the leg supports and arm support units mounted!

Only use the electric wheelchair in an undamaged condition.

The electric wheelchair serves solely for transporting **one** sitting person. – Other pulling or transporting uses do not comply with its intended purpose.

If you only have limited or no mobility, ensure that you can get help at any time in case of a break down.

The electric wheelchair is applicable on level, firm surfaces and can be used as follows:

- for indoors (e.g. apartment, day care),
- outdoors (e.g. paved paths in parks).
- Never expose the electric wheelchair to extreme temperatures and damaging environmental conditions, such as sunlight, extreme cold or salty water.
- Sand and other dirt particles can seize on moving parts and render them without function.

The electric wheelchair offers manifold adjustment possibilities to individual vital statistics.

National regulations might prevent the use on busses, trains or in aircraft.

-  Inform yourself at the transportation companies concerning limitations.
-  Before going on a flight clarify the specific transport conditions with your flight agency and also the legal regulations concerning transport in a plane in your country of residence as well as at your destination.

Only apply the electric wheelchair within the scope of the specifications and limita-

tion described in chapter *Technical data* on page 60.

ADJUSTMENT

Always have adaptation, adjustment or repair work carried out by a specialist dealer.

The electric wheelchair offers manifold adjustment possibilities to individual vital statistics. Before first use an adaptation of the electric wheelchair and a practical instruction in the functionalities of your electric wheelchair should be carried out by your specialist dealer. The adaptation will take into account the driving experience, the physical limits of the user and the main place of use of the electric wheelchair. Before first use, check the functionality of your electric wheelchair.

Should your specialist dealer carry out a revision/reconditioning or make fundamental changes to your electric wheelchair, without the use of original spare parts, this under certain conditions may result in a re-marketing of your electric wheelchair. This will further entail that your specialist dealer might need to conduct new conformity assessments and tests.

-  We recommend a regular inspection of the electric wheelchair adjustment in order to ensure a long-term optimal provision even with changing illness/handicap patterns of the user. Especially for juveniles an adjustment every 6 months is recommendable.
-  We recommend regular medical exams in order to ensure safety for active participation in traffic.

COMBINATION WITH MANUFACTURER FOREIGN PRODUCTS

Any combination of your electric wheelchair with components not supplied by us generally results in an amendment to your electric wheelchair. Please inquire with us if there is a valid combination clearance/release.

REINSTALLMENT

The electric wheelchair is suited for reinstallation. With the building block system the electric wheelchair can be fit to accommodate different handicaps body sizes. Before reimplementation the electric wheelchair is to undergo a complete inspection.

 Hygienical measures required for reinstallation are to be carried out according to a validated hygienic plan and must include disinfection.

The service manual, intended for the specialist dealer provides information to the reinstallation and reinstallation frequency of your electric wheelchair.

LIFE SPAN

We expect an average life span of about 5 years for this product, as far as the product is applied for its designated purpose and all maintenance and service guidelines. The life span of your product depends upon the frequency of use, the application environment and care. The implementation of spare parts can prolong the life span of the product. As a rule spare parts are available up to 5 years after production is discontinued.

 The indicated lifespan does not constitute additional guarantee.

BASE POSITION

Only drive on slopes, inclines and obstacles in the basic position of the seat rising function, back inclination and seat angle.
– Danger of overturning!

Basic position is to be understood as:

- Back inclination in nearly upright position.
- Seat inclination in horizontal position (but max 10°).
- Seat height in lower position.

OVERVIEW

Model TA IQ RWD

The overview shows the most important components and operating devices of the electric wheelchair.

Pos. Description

- (1) Head support
- (2) Back support
- (3) Arm support
- (4) Seat cushion
- (5) Footplate
- (6) Steering wheel
- (7) Selection lever drive-/push mode
- (8) Locking lever – Arm support
- (9) Driving wheel
- (10) Operating module
- (11) Front lighting
- (12) Type plate
- (13) Rear lighting
- (14) Electronic cover



Model TA IQ FWD

The overview shows the most important components and operating devices of the electric wheelchair.

Pos. Description

- (1) Head support
- (2) Back support
- (3) Arm support
- (4) Seat cushion
- (5) Calf plate
- (6) Footplate
- (7) Driving wheel
- (8) Front lighting
- (9) Locking lever – Arm support
- (10) Operating module
- (11) Selection lever drive-/push mode
- (12) Type plate
- (13) Steering wheel
- (14) Electronic cover
- (15) Rear lighting



Model TA IQ MWD

The overview shows the most important components and operating devices of the electric wheelchair.

Pos. Description

- (1) Head support
- (2) Back support
- (3) Arm support
- (4) Seat cushion
- (5) Calf plate
- (6) Footplate
- (7) Front steering wheel
- (8) Selection lever drive-/push mode
- (9) Locking lever – Arm support
- (10) Driving wheel
- (11) Operating module
- (12) Front lighting
- (13) Type plate
- (14) Rear lighting
- (15) Rear steering wheel
- (16) Electronic cover



HANDLING THE ELECTRIC WHEELCHAIR

Securing the electric wheelchair

The electric wheelchair is to be secured as follows to prevent it from rolling off unintentionally:

1. Switch the selection lever for drive-/push mode inwards on both sides to drive mode.
2. Switch off the operating module.

Functional checks

The functions and safety of the electric wheelchair must be checked before the start of each journey.

- 🔧 For this observe chapter < *Inspections before starting to drive* > in the accompanying documentation.

Driving

You define the speed and direction yourself with the joystick movements (driving and steering lever) while driving as well as the preadjusted maximum final speed of your electric wheelchair.

BRAKES

Brake the electric wheelchair down carefully and in time. This is especially the case when driving in front of people and while driving downhill!

Service brake

The motors work electrically as operating brake and carefully brake the electric wheelchair down without jerks to stillstand.

Braking the wheelchair

For allotted braking of the wheelchair slowly guide the joystick (steering and driving lever) back to the centre position (zero-setting).

Emergency braking

- 🔧 The electric wheelchair stops in shortest distance after releasing the joysticks.

Parking brakes

The parking brakes are only effective when the selection lever drive-/push mode is set to drive mode on both drives.

- 🔧 The parking brake disengages automatically when you start to drive.

Locking the brakes

It should not be possible to push the electric wheelchair forward when the brakes are engaged.

To lock the brakes, turn the selection lever drive-/push mode on both sides as far as possible by 45° inward (vertical position) into drive mode [1].

- ☞ The activation of the selection lever is designed for operation through the accompanying person.

Releasing the brakes

Only transfer into or out of the electric wheelchair when the electric wheelchair is switched off and the selection lever drive-/push mode on both sides is in drive mode!

An unintentional movement of the joysticks (driving and steering lever) can otherwise lead to an uncontrolled start of the electric wheelchair! – Danger of accidents!

To release the brakes swivel the selection lever drive-/push mode on both sides down as far as possible by about 45° outward into push mode [2].

- ☞ The activation of the selection lever is designed for operation through the accompanying person.



Drive-/push mode

Only switch the electric wheelchair to push mode when it is standing still for positioning or in case of emergencies, but not on slopes/hills.

- ☞ The electric magnetic brakes are switched off in the push mode.
 - A braking of the electric wheelchair is then only possible by switching to the drive mode.
- ☞ For shunting the electric wheelchair, grab the back support in height of the arm supports.

Selecting the push mode

1. Switch off the operating module because the pushing will otherwise be made difficult by the electric system.
 - ☞ Therefore observe operation manual < *Operating module* >.
2. Disengage the brakes [1].
 - ☞ Therefore observe chapter *Releasing the brakes* on page 16.

The electric wheelchair can now be pushed.

Selecting the motor mode

1. Activate the brakes [2].
 - ☞ Therefore observe chapter *Locking the brakes* on page 16.
2. Switch the operating module on.
 - ☞ Therefore observe operation manual < *Operating module* >.

The electric wheelchair is now ready for use again.



SELECTING THE OPERATION

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

☞ Charge the drive batteries via the operating module before the first journey.

☞ The charging procedure only runs with an intact mains/battery fuse (1)!

1. Selecting the motor mode.

Switch the drive motors to the drive mode [2]. – For this engage the brakes.

☞ Observe chapter *Locking the brakes* on page 16.

2. Check the position of the safety key (3).

☞ The safety key (3) of the circuit breaker must be pressed inward.



3. Check the position of the operating module.

Do not grab into the area of the cross brace. – Danger of squashing!

- ☞ For regular drive mode the operating module can be swivelled toward the front until it noticeably engages [4].

4. Switch the operating module on

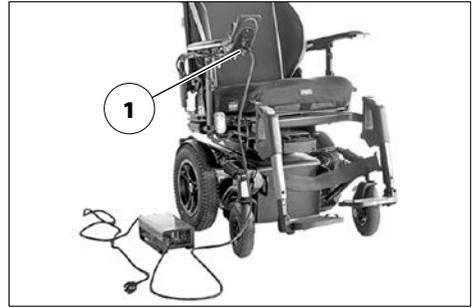
- ☞ Press the On/Off-key (5) on the control panel of the operating module.
- ☞ Therefore observe operation manual < Operating module >.



Pre-operation checks

Before starting to drive, the following should be checked:

- ☞ the battery charging condition.
- ☞ The setting of the preselected final speed.
- For this observe the operating manual < *Operating module* >.



Battery charging procedure

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

Only charge the batteries in well aired, dry rooms.

Protect the charger from heat, dampness, drop and spray water and jamming since it contains voltage. – Short circuit- and mortal danger!

Ensure a good ventilation of the charger during the charging (do not cover) in order to dissipate the heat generated by the charger. – Danger of fire!

Place the battery on a firm surface for charging.

Do not put the charger on the seat of the electric vehicle for charging.

Do not smoke and avoid open flame or sparking when handling cables and electric devices. The charging gases that can be produced by the charging are always explosive.

Avoid spark build up through electrical static (for example caused by synthetic floor covers).

- ☞ For the battery charging procedure also observe the operating manual of the battery charger.

1. Lock the electric wheelchair.



- ☞ Therefore observe chapter *Securing the electric wheelchair* on page 15.

2. Insert the charger plug into the battery charging socket (1) of the operating module.
3. Switch the battery charger on, resp. insert the main plug of the battery charger into the corresponding power socket.
 - ☞ The charging procedure is initiated.
- ☞ The charging process only runs with depressed safety key (2)!
4. After a completed charging procedure disconnect the battery charger from the socket and remove the battery charging plug from the battery charging socket.

Position of the operating module

Swivel the operating module inward toward the front for regular drive mode [1].

- ☞ For transport or storage the operating module can be swilled outward toward the back.

Function description

You will find a detailed description of the keys and symbols in the operating manual for < *Operating module* >.

Swivelling the operating module

Do not grab into the area of the cross brace. – Danger of squashing!

With the swivel away operating module adapter [1] the operating module can be swivelled back to the side (2) so that it is located parallel to the arm support. This makes it possible, for example:

- to drive closer to a table.

Position of the arm support

Danger of accidents through the backward swivelled arm supports!

For drive mode swivel the arm supports down toward the front and lock them in place [3].

Checking the locking function

check the locking device with a slight pull on the arm support.

- ☞ Therefore observe chapter *Check the locked condition of the arm support* on page 32.



LEG SUPPORTS

Before any actions on the leg support the electric wheelchair is to be secured against unintentional rolling motions.

☞ Therefore observe chapter *Securing the electric wheelchair* on page 15.

Central leg support

In order to easy entry and exiting for the user, as well as to reduce the wheelchair length for transport, the footboard [1] or the footplates [2] can be folded upward [3]+[4].

☞ Check the locking points!

– Remove both feet from the foot plate.

☞ Before starting to drive the footboard is to be lowered again [1].

Manual upfolding of the footboard / the footplates

For upfolding, fold the footboard / the footplates up as far as possible [3]+[4].

Manual downfolding of the footboard / the footplates

For downfolding, fold the footboard / the footplates down as far as possible [1]+[2].



Electric height adjustment

Never put the free hand into the adjustment mechanism while adjusting the height adjustable leg support. – Danger of jamming!

Place the foot onto the footplate before lowering. – Danger of squashing!

Watch for sufficient ground clearance of the leg supports!

☞ Damage to the surface possible through grounding of the leg supports!

For height adjustment, raise or lower the central leg support to the desired height via the operating module [2]+[1].

☞ Therefore observe operation manual < *Operating module* >.



Electric upfolding of the footplate

Never put the free hand into the adjustment mechanism while folding up the footplate. – Danger of jamming!

Watch for the angle of the feet when folding up the footplate. – Danger of injury!

For upfolding, raise or lower the footplate to the desired height via the operating module [4]+[3].

☞ Therefore observe operation manual < *Operating module* >.



Height adjustment of the footplate

Never grab into the adjustment mechanism or underneath the footplate with the spare hand during the height adjustment. – Danger of jamming!

Watch for sufficient ground clearance of the leg support and footplate!

☞ Damages to the surface possible through grounding of the leg support or footplate!

For height adjustment, raise or lower the footplate to the desired height via the operating module [5].

☞ Therefore observe operation manual < *Operating module* >.

Calf belt

Do not drive without the calf belt. – Danger of accidents!

The removable calf belt (1) prevents the feet from sliding off the back of the footplates.

☞ The calf belt must be removed in order to swivel away the leg supports [4].

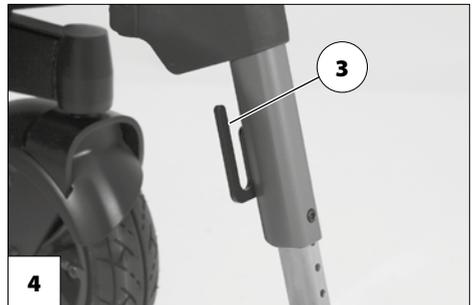
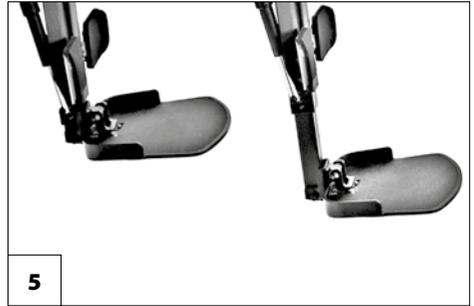
☞ The calf belt is omitted for height adjustable leg supports and is replaced by a calf pad.

Removing the calf belt

For removal the calf belt is to be pulled from the attachment pins (3).

Attaching the calf belt

For attachment both loops of the calf belt are slid over the attachment pins (3) [2].



Length adjustment of the calf belt

For length adjustment, the calf belt is guided around the special attachment pins (3) and adjusted in length with a velcro fastener.

Lower leg support

Observe danger of jamming between the footplate resp. footboard and leg support.

The footplates are to be folded up for entering or exiting the wheelchair [1].

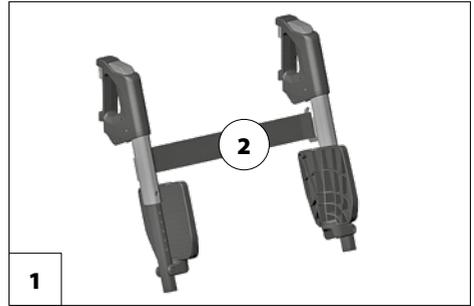
1. Remove both feet from the footplates.
2. Remove the calf belt (2), if present.

☞ Therefore observe chapter *Calf belt* on page 24.

☞ Before starting to drive the footplates are to be folded down again [3] and the calf belt attached.

Footplates

The footplates can be folded outward and up [1] resp. inward and down [3].



Leg support upper part

The upper leg support with an inserted lower leg support is termed leg support.

Turning the leg supports to the side

Leg supports turned to the side are released automatically and can easily come off. Note this when handling (e.g. transport).

Observe danger of jamming between leg support and seat.

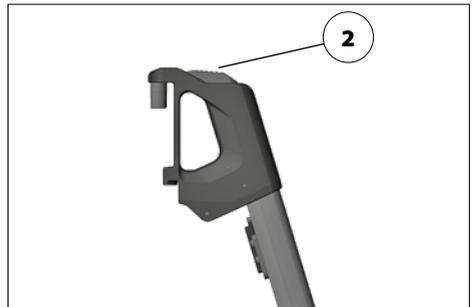
For easy transfer out of/into the electric wheelchair as well as driving closer to a closet, bed or bathtub the leg supports can be swivelled away toward the in-/outside [1].

- Remove the calf belt before swivelling away the leg supports.
- Therefore observe chapter *Calf belt* on page 24.

Fold up the footplates in order to swivel the leg supports to the sides.

- Therefore observe chapter *Lower leg support* on page 25.

Afterwards activate the respective pressure key for locking (2) and swivel the respective leg support to the side.



Swivelling in the leg supports

For inward swivelling, let the leg supports swivel forward until the lock audibly engages [1].

- After audibly swivelling the leg supports inward check the respective locking device.
- Afterwards observe chapter *Lower leg support* on page 25.



Removing the leg supports

For easy transfer into and out of the electric wheelchair as well as a reduced electric wheelchair length (important for transport) the leg supports can be removed [1].

- 👉 Remove the calf belt before swivelling away the leg supports.
- 👉 Therefore observe chapter *Calf belt* on page 24.

To remove the leg support, first activate the pressure key for locking, then remove the leg support to the top [1].

- 👉 Watch for possible danger of jamming!

Attaching the leg supports

For replacing, press the leg supports, swivelled to the side, parallel to the front frame tube and lower it into place [2]. – In doing so the holding pin must slide into the frame tube.

- 👉 After attachment [3] check the locking device of the leg supports.



Mechanically height-adjustable leg supports

Never put the free hand into the adjustment mechanism while adjusting the height adjustable leg support. – Danger of jamming!

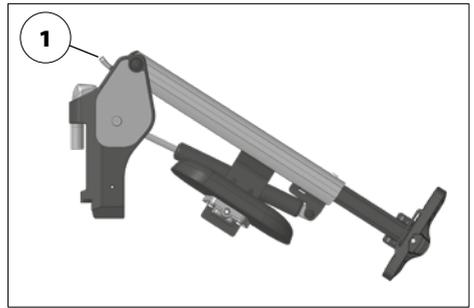
- ☞ If necessary have an accompanying person help during the adjustment procedure.

Lifting/lowering the leg support

The leg support can be adjusted as long as the release lever is depressed.

Press the release lever (1) to lift/lower the leg support.

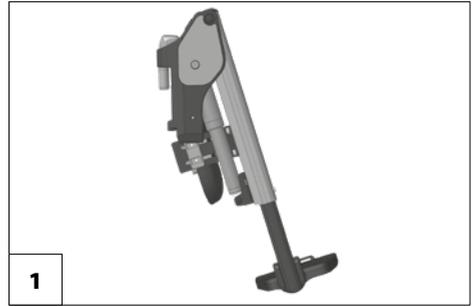
- ☞ With a relieved leg support, the leg support lifts automatically.
- ☞ With a strained leg support, the leg support lowers automatically.



Electrically height-adjustable leg support

Never put the free hand into the adjustment mechanism while adjusting the height adjustable leg support. – Danger of jamming!

Electric contact is automatically established when attaching the electrically height adjustable leg support [1].



Height adjustment

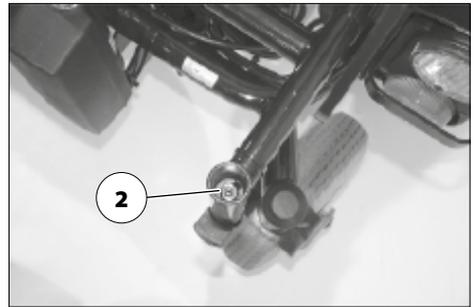
–For height adjustment, raise or lower the leg support to the desired height via the operating module.

- ☞ Therefore observe operation manual < *Operating module* >.

Removing the electrically height adjustable leg support

When the electrically height adjustable leg supports are removed the electric contact (2) needs to be protected from dampness, water and dust or dirt (e. g. for longer storage)!

- ☞ Possible function error of the electrical adjustment.



- ☞ Therefore observe chapter *Removing the leg supports* on page 28.

Hanging the electrically height adjustable leg support into place

- ☞ Therefore observe chapter *Attaching the leg supports* on page 28.
- ☞ Conduct a function test on the electrically height adjustable leg support.

ARM SUPPORTS

Do not use the arm supports [1] to lift or carry the electric wheelchair.

 Danger of accidents with the arm support swivelled toward the back [4]!

Swivel the arm support upward above dead center [3].

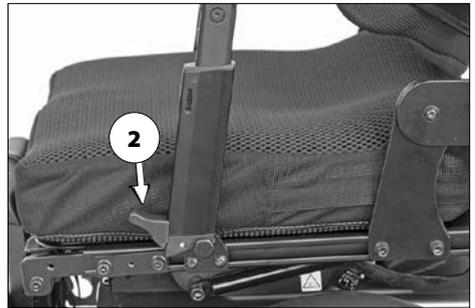
 Danger of accidents through unintentional forward lowering of the arm support!

Arm support with stabiliser

Swivelling up the arm support

For lifting, first pull the locking lever (2) upward and then swivel the arm support up above the dead center toward the back [3].

 When the arm support is swivelled back [4], there is an increased danger of accidents, especially during steering manoeuvres!



Swivelling down the arm support

Observe danger of jamming when inserting the arm support to the retaining bolt!

For lowering, first place the guide of the arm support onto the retaining bolt and slide it forward with light pressure [1].

Afterwards press the locking lever downward (2).



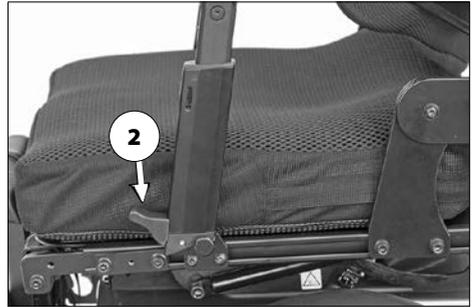
Locking the arm support in place

Press the locking lever down to lock the arm support into place (2).

Check the locked condition of the arm support

Check the locking device with a slight pull on the arm support [3].

☞ Therefore observe chapter *Swivelling down the arm support* on page 32.



Arm support without stabiliser

Swivelling up the arm support

For upswivelling fold the arm support toward the back [2].

- ⚠ When the arm support is folded to the back [2], there is an increased danger of accidents, especially during steering manoeuvres!



Swivelling down the arm support

For lowering, fold the arm support as far as possible onto the stopper screw [1].

- ⚠ Observe the jamming area in the swivelling area as well as between arm support rod and stopper screw [3]!



Swivelling arm support

Do not grab into the area of the crossbrace when swivelling the arm support into the basic position. – Danger of jamming!

Swivelling the arm support inward

1. Loosen the clamping lever (1) of the arm support to swivel it inward [2].
2. Retighten the clamping lever (1) after swivelling the arm support inward [2].

⚠ There is an increased danger of accidents, especially during steering manoeuvres!

Swivelling down the armrest

1. Loosen the clamping lever (1) of the arm support to swivel it outward [3].
2. Retighten the clamping lever (1) after swivelling the arm support outward [3].

⚠ There is an increased danger of accidents, especially during steering manoeuvres!

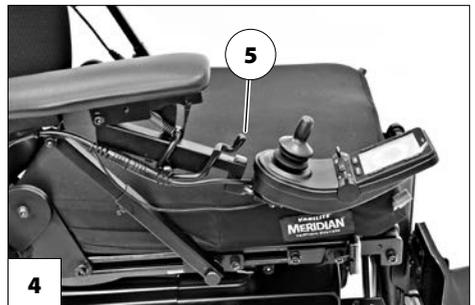
Folding operating module

Do not grab into the area of the crossbrace when folding the operating module upward. – Danger of jamming!

Lowering the operating module

Press the locking lever (5) forward to fold the operating module down [4].

⚠ To raise the operating module, pull it upward until the locking lever audibly snaps into place.



BACK SUPPORT

Any change to the seat inclination will lead to different safe back support adjustments!

Only adjust the back support when the electric wheelchair is standing on a level surface. A danger of tipping over exists on gradients!



Electrically adjustable back support

The back support [1] is electrically adjustable.

- 📖 Herefore view the operating manual < *Operating module* >.

Back support upholstery

The back support upholstery is attached to the back shell with velcro straps and can be pulled off for cleaning and maintenance [2].

- 📖 Further information can be found in the separate documentation of the back support upholstery.

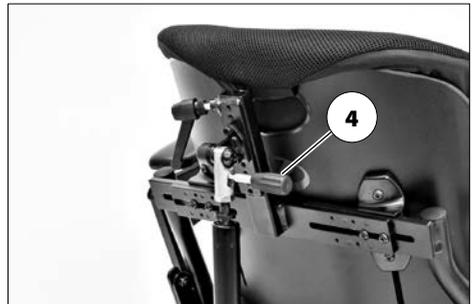


Mechanically adjustable back support

Angle adjustment with pneumatic spring

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

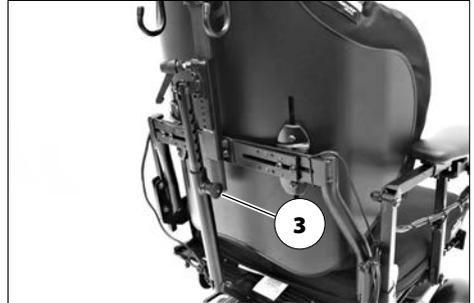
1. To adjust the angle of the back support the locking lever (4) of the pneumatic spring must be pressed downward.
2. Press/pull the back support, with the locking lever pressed (4), to the desired angle.
3. To lock the back support into place, release the locking lever (4).



Angle adjustment with telescopic tube

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

1. Pull the button of the locking pin (3) to adjust the angle of the back support.
 2. Press/pull the back support, with the pulled locking pin (3), to the desired angle.
 3. To lock the back support into place, release the locking pin (3) in the desired position.
- ☞ Slide the back support into any direction until the locking pin (3) audibly snaps into place.
 - ☞ Check and secure the locking of the back support.



SEAT

Seat pad

The seat pad is attached to the seat plate with velcro straps and can be removed for cleaning and maintenance [1].

Replace and attach the seat pad again after cleaning or maintenance. – Velcro fastener.



Seat inclination

Only adjust the seat angle [1] when the electric wheelchair is standing on a horizontal, level surface. A danger of tipping over exists on gradients.

Before adjustment of the seat inclination, bring the leg support(s) into the basic position.

The seat-angle adjustment is linked with an automatic speed reduction function.

An increased danger of tipping over exists with a reclined back support.

Before driving make sure that you have not adjusted a negative seat inclination, resp. that the seat inclination ensures a safe sitting position even while driving on hills/slopes.



Electrically adjusting the seat angle

The seat inclination [1] is administrated through the operating module or a separate adjustment module.

- ⚠ Watch for jamming areas in the adjustment area!
- ⚠ Therefore observe operation manual < *Operating module* >.

Seat height adjustment

Before seat height adjustment, check whether the adjustment area is free of obstacles. – Danger of injury!

Do not grab underneath the seat unit before and during active seat height adjustments. – Danger of squashing!

Use of the seat height adjustment is only permitted on straight surfaces and during stillstand of the vehicle.

If the seat is guided out of the initial position upwards, do not lower the leg support(s)!

The seat height [1] can be controlled through the operating module.

- ☞ Through this the seat height can be continuously adjusted up to.
- ☞ Therefore observe operation manual < *Operating module* >.
- ☞ If the seat is moved upward from the initial position, the speed is limited when 6 cm lifting height is reached.
- ☞ The limitations to speed are automatically reset as soon as the seat reaches the initial position..



HEAD SUPPORT

The head support serves to support the head posture.

The head support may not be positioned in the height of the neck.

The upper edge of the head support should always be close to the back of the head and at about eye level.

Before use check the adjustment of the head support, if necessary contact an authorised specialist dealer.

During people transport inside a motor vehicle we recommend the use of a firm vehicle installed head support.

The head support (1) is swivel proof, height, depth and angle adjustable as well as removable.

Removing the head support

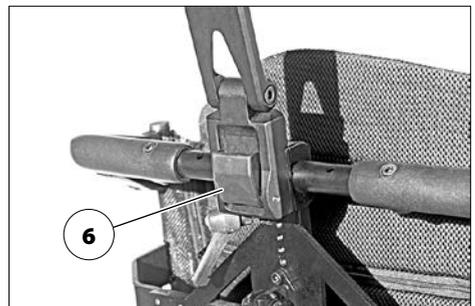
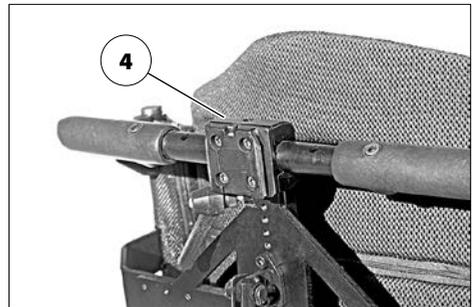
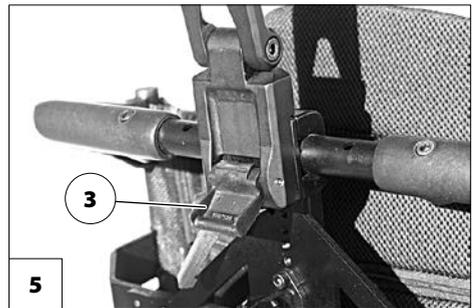
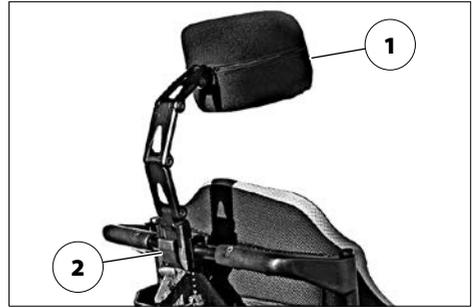
To remove the head support, first fold the locking device (2) down (3).

Afterwards pull the head support upward from the attachment plate (4).

Attaching the head support

For attachment, slide the head support onto the attachment plate (4) [5].

Afterward fold the locking device (3) up (6).



RETAINING STRAP

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

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

The retaining strap is not part of the retaining system for the electric wheelchair and/or the user during transport in motor vehicles.

The retaining strap is screwed on, from the outer side, at the respective back support holder (1).

The retaining strap serves to stabilise the sitting position and prevents falling forward out of the electric wheelchair.

To fasten the retaining strap, pull both ends forward and audibly let the buckle click into place.

To open the retaining strap, press down the release button and pull the two ends of the strap apart.

🔧 The retaining straps can be adjusted in length and should not be pulled too tight.



LIGHTING

For driving outdoors and on public roads the electric wheelchair is equipped with LED-lighting (1)+(2) equipment.

The lighting is activated over the operating module for the driver.

- ☞ Therefore observe operation manual < *Operating module* >.
- ☞ Always switch on the lighting system in poor visibility conditions and especially during darkness in order to see better and be better seen by others.
- ☞ Ensure that headlights, turn signals and taillights as well as reflectors are not covered by clothes or other objects attached to the electric wheelchair.



LOADING AND TRANSPORTATION

Do not use the back support, leg supports, arm supports or restraints to lift the electric wheelchair!

Guide the seat height and seat inclination into the initial position for transport!

The electric wheelchair must be switched off before lifting!

The parts detached for loading must be carefully stowed and carefully attached again before the next journey.

No special carrying points are allocated for carrying detachable components.

The following procedures may be necessary due to lack of space for the transport in vehicles:

- Remove head support.
- Fold the footplates up or remove the leg supports.
- Adjust the back support.

Loading

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

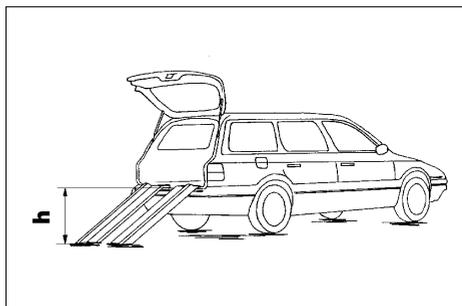
The electric wheelchair can be loaded with the aid of ramps or lifting platforms.

Ramps and lifting platforms

Observe the operating manual for the ramp or lifting platform.

Observe the manufacturer's information for the ramp or lifting platform.

The maximum bearing height specified for the ramp must be greater than the height 'h' from the ground to the loading surface, e.g. of the car.



The load capacity of the ramp or lifting platform must be higher than the overall permitted weight of the electric wheelchair.

There is a danger of tilting when driving backwards on ramps!

Transport of people inside a motor vehicle

For transport of people inside a motor vehicle, put the seat height and seat inclination into the initial position!

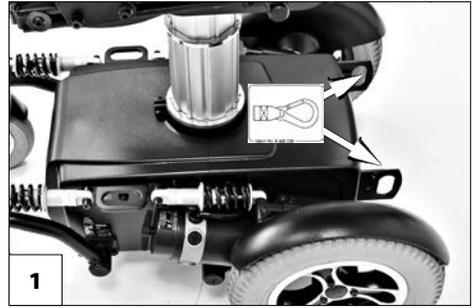
To determine if your electric wheelchair is approved as a seat for person transport inside a motor vehicle, please look at the type plate of your wheelchair.

- ☞ Therefore view chapter *Meaning of the symbols on the type plate* on page 76.
- ☞ Electric wheelchairs that are not suited for use as a seat for transport in a motor vehicle are marked with an additional label. – For this observe chapter *Meaning of the labels on the electric wheelchair* on page 74.

Transport security

The electric wheelchair is only to be secured through the securing points.

- ☞ The four anchor positions are marked with a symbol [1]+[2].
- ☞ The procedure for securing the wheelchair can be read in the document < *Safety and general handling instructions electric vehicles* > chapter < *Transport in motor vehicles or with conveyors* >. – This document and further information are located on our website < www.ta-service.dk >.
- ☞ For transport of people inside a motor vehicle the strap system of the motor vehicle is to be used for transport security.



Dahl-Docking-System

If the electric wheelchair was equipped with the Dahl-Docking-System for transport security, the separate documentation of the Dahl-Docking-Systems is to be observed.

People transportation acc. to ISO 7176-19 is only permitted with the following anchoring systems:

- 4-point anchoring system acc. to ISO 10542,
- Dahl Dockingstation MK II,
- Dahl VarioDock.

Information for assembly and operation are to be taken from the anchoring system specific assembly and operating manual.

- ☞ This document is included with any anchoring system.

The specific document for the anchoring system can also be viewed in the product

specific category < Operating manual > on our website < www.ta-service.dk >.

TYRES

Tyres are made of a rubber mixture and can leave permanent or difficult-to-remove marks on some surfaces (e.g. plastic, wooden or parquet flooring, carpets, mats). We cannot accept liability for damages on surfaces caused by wear or chemical processes of the tyres.

MAINTENANCE

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

Maintenance

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

- ✎ The maintenance plan does not give information about the actual extent of work determined on the vehicle.

Maintenance schedule

WHEN	WHAT	REMARK
Before starting out	General Test for faultless operation.	Carry out test yourself or with a helper.
	Checking the magnetic brake Move the selection lever for the drive/push mode into the drive mode position on both sides.	Carry out test yourself or with a helper. If the electric wheelchair can be pushed, have the brakes repaired immediately by the specialist workshop. – Danger of accidents!
Especially before driving in the dark	Lighting Check the lighting equipment and reflectors for flawless functioning.	Carry out test yourself or with a helper.
Every 2 weeks (depending on distance covered)	Check air pressure of the tyres. Tyre filling pressure:  View <i>Technical data</i> on page 60.	Carry out test yourself or with a helper. Use a tyre gauge.
	Adjustment screws, screwed connections Screws and nuts are to be checked for tight fit.	Carry out test yourself or with a helper. Retighten the loosened screws. Contact specialist workshop upon demand.
Every 6 -8 months (depending on distance covered)	Wheel attachments Wheel nuts or screws are to be checked for tight fit	Do it yourself or with the aid of a helper. Securely tighten any loosened wheel nuts or screws and retighten again after 10 operating hours or resp. 50 km. Contact specialist workshop upon demand.

WHEN	WHAT	REMARK
<p>Every 2 months (depending on distance covered)</p>	<p>Check tyre profile Minimum tread = 1 mm</p>	<p>Carry out a visual check yourself or with a helper. If the tyre profile is worn down or if the tyre is damaged, consult a specialist workshop for repairs.</p>
<p>Every 6 months (depending on frequency of use)</p>	<p>Check</p> <ul style="list-style-type: none"> - Cleanness. - General condition. 	<p>View chapter <i>Cleaning</i> on page 56. Do it yourself or with the aid of a helper.</p>
<p>Manufacturer recommendation: Every 12 months (depending on frequency of use)</p>	<p>Maintenance jobs</p> <ul style="list-style-type: none"> - Vehicle - Battery charger 	<p>To be carried out by the specialist dealer.</p>

Main fuse

The safety fuse of the circuit breaker must be depressed!

The mains fuse is a circuit breaker with safety fuse (1), that pops out in case of overload.

After it has popped out, press the safety fuse (1) back in.

- 🔧 If the safety fuse blows again, have a specialist dealer repair the reason for the blowing fuse.
- 🔧 Observe chapter *Technical data* on page 60!

Battery fuse

The flat fuse [2] for the battery current is located in the fuse holder under the seat, on top of the batteries (3).

Replacing the fuses

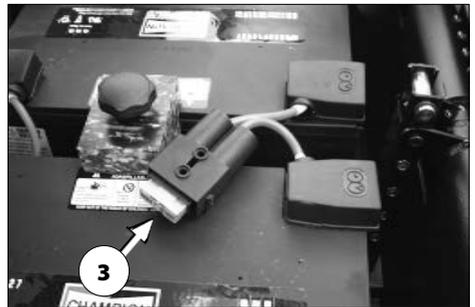
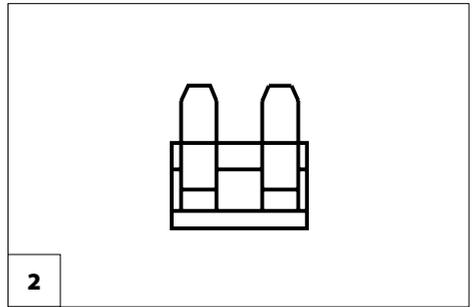
Only replace the safety fuse with a safety fuse of the same type. – *Further technical data for model TA IQ MWD* on page 72 to be observed.

Before replacing fuses, park the electric wheelchair on a level surface and secure it from rolling away.

- 🔧 Therefore observe chapter *Securing the electric wheelchair* on page 15.

New fuses can be obtained for example at petrol stations.

- 🔧 If the safety fuse blows again, take the battery to a specialist dealer for repair.



Fuse plug

Keep the safety plug safe after pulling it off, e.g. as antitheft protection or for transport in airplanes!

Interrupting the electric power current

Pull the safety plug for interrupting all electric functions out toward the bottom [2].

Re-establish electric power current

Insert the safety plug to establish all electric functions from the bottom as far as possible [3].



Lighting

The lighting (1)+(2) is equipped with longlife LED-technology.

- 🔧 Immediately have a defective LED-lamp repaired by a specialist workshop.

Headlights

The housing of the light (1) must be adjusted so that the light cone is visible on the driving surface. – The lower edge of the light cone should be set at distance of 3 meters to the front of the electric wheelchair.

- 🔧 The lighting case might need to be re-adjusted after adjustment of the seat inclination.
- 🔧 If needed go to a specialist workshop for adjustment.



Fault correction

Fault	Cause	Remedy
Battery indicator on the operating module does not light up after the switch-on.	Battery fuse is defective or not correctly inserted.	Replace defective fuse or clean contacts and insert correctly.
	Plug connection of the power supply without contact.	Check the plug connections.
The battery gauge blinks after the switch-on.	One or both of the drive motors are switched to push mode.	Move the selection lever for the drive/push mode into the drive mode position on both sides.
	Plug connection at one of the drives without contact.	Check the plug connections.
	Malfunction in the electronics.	Have it repaired by the specialist workshop. (Push mode) Selection lever in driving mode position.
	Not listed faults.	View < Error diagnostics > in the operating manual for the operating module.
Lighting not active.	LED-lamp defective.	Let it be repaired or replaced by a specialist workshop.
	Lighting fuse or drive electronics defective.	Let it be repaired or replaced by a specialist workshop.

BASIC SAFETY INFORMATION

This safety information is an extract of the *Safety and general handling instructions*, that can be found on our website: < www.ta-service.com >.

Do not insert fingers into open frame tubes (for example after removing the leg supports or swivelling up the arm supports). – Danger of injury!

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

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

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

Adjust the seat inclination only when the electric wheelchair is standing on a horizontal, level surface. A danger of tipping over exists on gradients!

Increased danger of tipping over when using the angle adjustable back support.

Before starting to drive make sure that no negative seat inclination has been adjusted, respectively that a safe seating position is ensured.

Watch for sufficient ground clearance of the leg support(s) before and while driving. – Danger of accidents!

You should not smoke while using the electric wheelchair.

Exposure to direct sunlight can cause seat covers/upholstery, arm support pads, leg supports and handles to heat up to over 41 °C. – Contact with exposed skin can result in injury! Prevent such heating by parking the electric wheelchair in a shaded area.

Special attachment points for hanging e. g. a pouch is provided by the optionally available pouch attachment mounted to the head support rod. – The maximum permitted additional load on the pouch attachment is 5 kg.

Only transfer into or out of the seat when the electric wheelchair is switched off and the selection lever drive-/push mode on both sides is in drive mode!

- Inadvertently knocking the joystick will set the electric wheelchair in motion without control! – Danger of accidents!

Accompanying person

The accompanying person must be made aware of all possible danger situation before the start of his/her supportive involvement. The parts of your electric wheelchair that are held onto by the accompanying person are to be checked for tight fit.

Transfer out of the electric wheelchair

Drive with the electric wheelchair as closely as possible to the spot where you want to switch out of the electric wheelchair.

- ☞ Herefore additionally observe chapters *Securing the electric wheelchair* on page 15, *Leg supports* on page 22 and *Swivelling up the arm support* on page 31.
- ☞ We recommend to conduct the transfer from the electric wheelchair together with an aid.

Reaching for objects

Avoid an extreme forward or backward inclination of the upper body when picking up or placing heavy objects. – Danger of electric wheelchair tipping over, especially in the case of narrow seat widths and high seat heights (seat cushion)!

Driving on falling, rising or transverse gradients

For safety reasons, the maximum permitted gradient is limited because the tip-over stability and the braking and steering behaviour are impaired by a reduced floor/road.

- ☞ Observe chapter *Technical data* on page 60.

Never lean towards the downhill direction when driving on rising, falling or transverse gradients.

Avoid jerky changes of the driving condition (especially with critically adjusted driving parameters as for example high delay values).

Always drive with a low speed on rising/falling gradients.

Extreme inclinations or slopes are to be driven on with adequate final speed.

Never switch to push mode on gradients. The automatic brakes are inoperative in the push mode.

Do not push the vehicle on gradients.

While driving in curves and when turning on inclinations and slopes there is a danger of tilting.

Avoid driving on inclinations or slopes with insufficient surface condition. Even with only on sided existence of ice, water, moss or similar on the ground, there is a danger that the electric wheelchair will loose traction and begin to slide out of control. If required immediately bring the joystick back into the neutral position.

Never drive faster than walking speed.

The braking force transferred to the driving surface is much less on a downward slope than on a level driving surface and is further reduced by poor road conditions (e.g. rain, snow, grit, dirt). A dangerous slipping of the wheels due to excessive braking and an associated unwanted course deviation must be avoided by way of a careful dosed braking.

At the end of the downward slope, take care that the foot plates do not make contact with the ground and endanger you through a sudden braking effect.

Transverse surfaces to the driving direction (e.g. transversely sloped pavements) effect a turning of your electric wheelchair in the downhill direction. You or an accompanying person must compensate for this drift by a counter-steering.

Crossing obstacles

The obstacle crossing capability depends on the driving surface gradients, the adjustment of the leg supports and other factors.

Each crossing of obstacles involves a risk! – tilting danger of the electric wheelchair.

The crossing of obstacles is a special danger situation in which a combination of the safety advice in the sections headed uphill driving, downhill driving and driving transverse to a slope must be observed in addition to other safety advice.

Keep well clear of obstacles like ruts, rails and gully covers or similar sources of danger.

Always drive slowly and at a right (90°) angle towards small obstacles, e.g. curbs/edges. Cross the obstacle forwards with about 0.5 m approach and simultaneously with both front- resp. rear wheels. Otherwise your electric wheelchair could tilt diagonally and you could fall out of the electric wheelchair.

Always maintain a safety distance between the wheelchair and drops, stairs and similar obstacles sufficient for reaction, braking and turning.

If possible, let one or more helpers lift you out of the electric wheelchair and carry you to the destination point.

You can easily fall out of the electric wheelchair when driving down a step (e.g. pavement curb) if the footplates or leg supports land on the driving surface. The crossing of rails or ruts requires increased attention.

– Unwanted course deviation!

The safe driving on stairs is impossible with conventional electric vehicles.

Electrical system

An incorrect and/or inappropriate modification of the driving behaviour can impair the safety of the electric wheelchair and the electric wheelchair user. – Danger of accidents!

The electronic control system of the electric wheelchair must not be modified.

Should the electric wheelchair react in an unaccustomed manner or fulfil uncontrollable manoeuvres, the joystick/director is to be brought back into the neutral position/initial position immediately and/or the electric wheelchair to be switched off at once.

Transport in public methods of transportation

Your electric wheelchair is not designed for user transport in public transportation vehicles. Limitations may occur. We recommend use of one of the firmly built in seats of the public vehicle.

Should it nevertheless become necessary to carry out the transport while sitting in the electric wheelchair, the following needs to be observed:

- Use the space designated by the public transportation services for parking.
- Observe the regulations of the transport company before parking the electric wheelchair.
- Park your electric wheelchair opposite to the driving direction in the reserved space.
- The electric wheelchair is to be placed so that the back support it will be supported by the border of the parking space.
- One side of the electric wheelchair must also lie against the border of the parking space, so that the electric

wheelchair cannot slide away in case of an accident or sudden braking manoeuvre.

- Ensure that the drives are set to drive mode and the parking brakes are engaged.
- 🔧 Therefore observe chapter *Parking brakes* on page 15.

Driving on public highways

Observe the valid regulations for public traffic of your country and if necessary ask your specialist dealer for required accessories.

Your electric wheelchair can optionally be fit with lighting equipment. The lighting equipment consists of:

- Headlights,
- Rear reflectors.

With limited visibility and especially in the dark we recommend to mount active lighting equipment and to turn it on in order to see better and be seen.

- 🔧 When participating in public traffic the user is responsible for the functional and operationally safe condition of the electric wheelchair.
- 🔧 The valid traffic regulations must be observed and abided when participating in public traffic.
- 🔧 Wear light-coloured and conspicuous clothing when driving in darkness.
- 🔧 When driving in the dark avoid using the road or bicycle lanes.
- 🔧 Observe that the lighting equipment is not covered by clothes or any other objects attached to the electric wheelchair.
- 🔧 In case of physical limitation, such as blindness, a driving ability certification for independent driving of the electric wheelchair is required.

CLEANING

Switch the electric wheelchair off before and while cleaning.

The plastic panelling is attacked through non-ionic tensides as well as solvents and especially alcohol.

Do not clean the electric wheelchair with a water hose or high-pressure cleaner!
– Danger of short circuit!

The cushions and covers are normally fit with care instructions (instruction for care).

- 🔧 Therefore observe chapter *Meaning of the symbols on the washing instruction* on page 75.

In all other cases the following information is true:

- 🔧 Clean the upholstery with warm water and hand washing liquid.
- 🔧 Remove spots with a sponge or a soft brush.
- 🔧 Wash off persistent dirt with commercial fine detergent.
- 🔧 Do not soak! Do not machine wash!

Follow-up with a damp water cloth and allow to dry.

The chassis and wheels can be cleaned damp with a mild detergent. Afterwards dry off well.

- 🔧 Check the chassis for corrosion damages as well as other damages.
- 🔧 Only clean the plastic parts with warm water and neutral detergent or soft soap.
- 🔧 When using commercial plastic cleansers the manufacturers application instructions are to be observed.

Keep the lighting components clean at all times and check for correct functioning before each journey.

- ☞ Keep water and moisture away from electrical components and cabling!
 - Danger of damage to the electric and the operating keyboard through water jets.

Silicone free water based cleaning agents and care products should be used for the care of the vehicle.

- ☞ In doing so the manufacturers instructions are to be observed.

Do not use aggressive cleaning agents e.g. solvents, or hard brushes etc.

Further information to cleaning and care can be found on our website:
< www.ta-service.dk >.

Finish

The high quality finish ensures an optimum of protection against corrosion.

- ☞ Should the coating be damaged with scratches or similar, these areas can be touched up with our paint pen available at the specialist dealer.

Slight lubrication of moving parts will ensure for their long functioning.

Disinfection

If the product is used by more than one person (for example in a care centre), the use of a commercial disinfectant is mandatory.

- ☞ Before disinfection the upholstery and handles are to be cleaned.
- ☞ A spray- or wiping disinfection is permitted with tested and accredited disinfectants.

You can get information on tested and permitted disinfectants and procedures at your national facility for health protection.

- ☞ During the use of disinfectants it can happen that surfaces might be affected in such a fashion that the long term functionality of parts can be limited.
- ☞ In doing so the manufacturers instructions are to be observed.

REPAIRS

Repairs are generally to be carried out by a specialist dealer.

Repairs

Trustingly contact your specialist dealer for maintenance work. He has been introduced to the maintenance.

Customer Service

In case you have any questions or need help please contact your specialist dealer who can assume counselling, customer service and repairs.

Spare parts

Spare parts can only be ordered from specialist dealers. In case of repair work, only original spare parts are to be used!

- ☞ Spare parts from other manufacturers can cause malfunctions.

The spare parts list with the respective part numbers and drawings is available at the specialist dealer.

In order to ensure the correct delivery of a spare part, always quote the corresponding serial number (SN) of the electric wheelchair! You will find this on the type plate.

Whenever repair work on the electric wheelchair is carried out by the specialist dealer, the supplementary information, e.g. assembly/operating instructions must be attached to the operating manual of the electric wheelchair, the date of the modification must be recorded and stated when ordering spare parts.

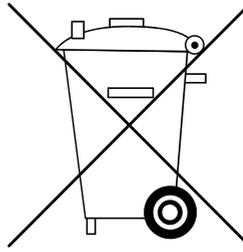
This should prevent wrong order details on future spare parts orders.

Information for extended pauses of use

In case of longer periods without use, the following measures are required:

- ☞ Charge the batteries at least once a month for a period of more than 16 hours.
- ☞ The storage temperature is to be observed.
 - ☞ For this observe chapter *Technical data* on page 60.

DISPOSAL



The disposal must comply with the respective national law.

Please enquire about local disposal arrangements at your municipal authority.

Information for the specialist dealer

A maintenance and service manual, that contains for example the following information is available on our website < www.ta-service.dk >:

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

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

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

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

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

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

Programming the driving behaviour

The driving behaviour of the electric wheelchair can be adjusted through the programming device.

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

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

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

- ☞ Any change to the manufacturer set programming may result in an increased danger of accidents.

- ☞ Possible danger of tilting in curves.

TECHNICAL DATA

All data given in the < *Technical data* > refers to the standard version.

Dimensional tolerance ± 15 mm, $\pm 2^\circ$.

Calculation of the max. user weight:

The maximum total load is calculated on the basis of the unloaded weight of the electric wheelchair and the maximum passenger weight.

Additional weight due to subsequent additions or luggage reduce the maximum permissible passenger weight.

Example:

A driver wishes to take luggage with a weight of 5 kg. Thus, the maximum user weight is reduced by 5 kg.

Tyre pressure of pneumatic tyres

Maximum tyre pressure is printed on the tyres on each side.

Full tyre pressure – steering wheel

Standard:

2.0 - 3.0 bar = 29 - 44 psi

Full tyre pressure – drive wheel

Standard:

3.0 - 4.0 bar = 44 - 58 psi

Maximum range

The nominal values indicated by are reasonable in compliance with ISO 7176-4.

The maximum range depends to a large extent on the following factors:

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

The maximum range is greatly reduced by:

- frequent driving upwards on ramps,
- insufficient charging condition of the drive batteries,
- low ambient temperature (e.g. in winter)
- frequent starts and stops (e. g. in shopping malls),
- aged, sulphated drive batteries,
- frequently necessary steering manoeuvres,
- reduced driving speed (especially at walking speed).

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

Hill climbing ability

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

Applied norms

The electric wheelchair complies with the norms:

- EN 12184
- ISO 7176-8
- ISO 7176-19
- ☞ Assessment of the Crashtest, in which the electric wheelchair is attached to the retaining system of the vehicle, has been carried out according to the testing methods of annex D.
- ☞ The crash test has been conducted and accepted with following anchoring systems:
 - 4-point anchoring system acc. to ISO 10542,
 - Dahl Dockingstation MK II,
 - Dahl VarioDock.
- ☞ The corresponding product accompanying documents are included with the product.
- ☞ Assessment of the transport safety of the Dahl-Docking-Systems has been carried out.
- ☞ The specific document for the anchoring system can also be viewed in the product specific category < *Operating manuals* > on our website < www.ta-service.dk >.

The models are allocated to application class B according to the norm EN 12184.

The applied parts and components we use are in compliance to EN 1021-2 for resistance against inflammation.

Data according to ISO 7176-15 for model TA IQ RWD

	min.	max.
Overall length (measured at 0° seat inclination)	940 mm	1060 mm
Overall width	630 mm	720 mm
Overall dimensions, max. permitted		300 kg
User weight (incl. additional load)		140 kg
User weight Incl. additional load, when the product is used a seat inside a motor vehicle (Dahl-Docking-System, crash-tested acc. to ISO 7176-19)		136 kg
Weight of the heaviest part		23 kg
Actual seat depth	250 mm	590 mm
Actual seat width	370 mm	550 mm
Seat surface height at front edge (without cushion) at 0° seat inclination	380 mm	680 mm
Electric seat angle	0°	45°
Seatlift		300 mm
Back support angle, mechanical (Measured to vertical on the seat plate)	80°	165°
Back support angle, electrical (Measured to vertical on the seat plate)	80°	165°
Back support height	540 mm	665 mm
Foot support to seat Lower shank length, without seat cushion	370 mm	580 mm
Static stability downhill	19.6°	19.6°
Static stability uphill	14.3°	19.6°
Static stability lateral	13°	19.6°
Dynamic stability uphill		10°
Angle leg support - seat surface:	90°	180°
Arm support height from seat surface (w/ w/o seat cushion)	185 mm	285 mm
Back support to front edge of arm support	370 mm	475 mm
Obstacle height		80 mm

	min.	max.
Minimal turning radius <small>(measured at 0° seat inclination)</small>	650 mm	
Weight of the dummy (ISO 7176-8)		140 kg
Max. forward top speed <small>(depending on features)</small>	6 km/h	12 km/h
Minimum breaking distance at top speed		2810 mm
Maximum range with 6 km/h <small>(depending on battery capacity)</small>		40 km
Maximum range with 10km/h and 12 km/h <small>(depending on battery capacity)</small>		35 km
Axle horizontal position	- mm	- mm

Further technical data for model TA IQ RWD

	min.	max.
Sound level		70 dB(A)
Protection class		IP X4
Min. turning area	1150 mm	
Performance drive control		24 V / 120 A
Engine output		2x 350 W
Main fuse		80 A
Lighting (option)		LED-technology 24 V
Additional load		5 kg
Front axle load (max. permitted)		150 kg
Rear axle load (max. permitted)		200 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 (footplate up-folded)	820 mm	
Width	630 mm	720 mm
Height with standard cushion <small>(Back folded onto the seat, seat cushion removed from the seat plate and placed onto the back)</small>	700 mm	

Climatic data

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

	min.	max.
<u>Steering wheel</u>		
∅ 200 x 50 mm (8")	pneumatic tyres, max. 2.0 bar (29 psi) puncture safe	
<u>Driving wheel</u>		
∅ 364 x 75 mm (14 x 3.5")	pneumatic tyres, max. 2.5 bar (36 psi) puncture safe	
<u>Drive batteries</u>		
2 x 12 V 63 Ah (5 h) / 80 Ah (20 h)	sealed, maintenance free	
Max. battery dimensions (LxWxH)	260 x 168 x 215 mm	
Charging current		8 A

Data according to ISO 7176-15 for model TA IQ FWD

	min.	max.
Overall length (measured at 0° seat inclination)	985 mm	1100 mm
Overall width	630 mm	720 mm
Overall dimensions, max. permitted		300 kg
User weight (incl. additional load)		140 kg
User weight Incl. additional load, when the product is used a seat inside a motor vehicle (Dahl-Docking-System, crash-tested acc. to ISO 7176-19)		136 kg
Weight of the heaviest part		23 kg
Actual seat depth	250 mm	590 mm
Actual seat width	370 mm	550 mm
Seat surface height at front edge (without cushion) at 0° seat inclination	380 mm	680 mm
Electric seat angle	0°	45°
Seatlift		300 mm
Back support angle, mechanical (Measured to vertical on the seat plate)	80°	165°
Back support angle, electrical (Measured to vertical on the seat plate)	80°	165°
Back support height	540 mm	665 mm
Foot support to seat Lower shank length, without seat cushion	370 mm	580 mm
Static stability downhill	15.9°	19.6°
Static stability uphill	19.6°	19.6°
Static stability lateral	13.5°	19.0°
Dynamic stability uphill		10°
Angle leg support - seat surface:	90°	180°
Arm support height from seat surface (w/ w/o seat cushion)	185 mm	285 mm
Back support to front edge of arm support	370 mm	475 mm
Obstacle height		100 mm

	min.	max.
Minimal turning radius <small>(measured at 0° seat inclination)</small>	650 mm	
Weight of the dummy (ISO 7176-8)		140 kg
Max. forward top speed <small>(depending on features)</small>	6 km/h	12 km/h
Minimum breaking distance at top speed		2620 mm
Maximum range with 6 km/h <small>(depending on battery capacity)</small>		40 km
Maximum range with 10km/h and 12 km/h <small>(depending on battery capacity)</small>		35 km
Axle horizontal position	- mm	- mm

Further technical data for model TA IQ FWD

	min.	max.
Sound level		70 dB(A)
Protection class	IP X4	
Min. turning area	1170 mm	
Performance drive control	24 V / 120 A	
Engine output		2x 350 W
Main fuse	80 A	
Lighting (option)	LED-technology 24 V	
Additional load		5 kg
Front axle load (max. permitted)		200 kg
Rear axle load (max. permitted)		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 (footplate up-folded)	820 mm	
Width	630 mm	720 mm
Height with standard cushion <small>(Back folded onto the seat, seat cushion removed from the seat plate and placed onto the back)</small>	700 mm	

Climatic data

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

	min.	max.
<u>Steering wheel</u>		
∅ 200 x 50 mm (8")	pneumatic tyres, max. 2.0 bar (29 psi) puncture safe	
<u>Driving wheel</u>		
∅ 364 x 75 mm (14 x 3.5")	pneumatic tyres, max. 2.5 bar (36 psi) puncture safe	
<u>Drive batteries</u>		
2 x 12 V 63 Ah (5 h) / 80 Ah (20 h)	sealed, maintenance free	
Max. battery dimensions (LxWxH)	260 x 168 x 215 mm	
Charging current		8 A

Data according to ISO 7176-15 for model TA IQ MWD

	min.	max.
Overall length (measured at 0° seat inclination)	985 mm	1100 mm
Overall width	630 mm	720 mm
Overall dimensions, max. permitted		305 kg
User weight (incl. additional load)		140 kg
User weight Incl. additional load, when the product is used a seat inside a motor vehicle (Dahl-Docking-System, crash-tested acc. to ISO 7176-19)		136 kg
Weight of the heaviest part		23 kg
Actual seat depth	250 mm	590 mm
Actual seat width	370 mm	550 mm
Seat surface height at front edge (without cushion) at 0° seat inclination	380 mm	680 mm
Electric seat angle	0°	45°
Seatlift		300 mm
Back support angle, mechanical (Measured to vertical on the seat plate)	80°	165°
Back support angle, electrical (Measured to vertical on the seat plate)	80°	165°
Back support height	540 mm	665 mm
Foot support to seat Lower shank length, without seat cushion	370 mm	580 mm
Static stability downhill	13.8°	19.6°
Static stability uphill	14.7°	19.6°
Static stability lateral	14.6°	16.1°
Dynamic stability uphill		10°
Angle leg support - seat surface:	90°	180°
Arm support height from seat surface (w/ w/o seat cushion)	185 mm	285 mm
Back support to front edge of arm support	370 mm	475 mm
Obstacle height		80 mm

	min.	max.
Minimal turning radius <small>(measured at 0° seat inclination)</small>	650 mm	
Weight of the dummy (ISO 7176-8)		140 kg
Max. forward top speed <small>(depending on features)</small>	6 km/h	12 km/h 15 km/h
Minimum breaking distance at top speed		2800 mm
Maximum range with 6 km/h <small>(depending on battery capacity)</small>		40 km
Maximum range with 10km/h and 12 km/h <small>(depending on battery capacity)</small>	25 km	40 km
Axle horizontal position	– mm	– mm

Further technical data for model TA IQ MWD

	min.	max.
Sound level		70 dB(A)
Protection class	IP X4	
Min. turning area	1150 mm	
Performance drive control	24 V / 120 A	
Engine output		2x 350 W 2x 600 W
Main fuse	80 A	
Battery fuse	100 A	
Lighting (option)	LED-technology 24 V	
Additional load		5 kg
Front axle load (max. permitted)		100 kg
Rear axle load (max. permitted)		100 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

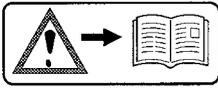
Length (footplate up-folded)	880 mm	
Width	630 mm	720 mm
Height with standard cushion <small>(Back folded onto the seat, seat cushion removed from the seat plate and placed onto the back)</small>	700 mm	

Climatic data

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

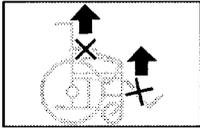
	min.	max.
<u>Steering wheel</u>		
∅ 200 x 50 mm (8")	pneumatic tyres, max. 2.0 bar (29 psi) puncture safe	
<u>Driving wheel</u>		
∅ 364 x 75 mm (14 x 3")	pneumatic tyres, max. 2.5 bar (36 psi) puncture safe	
∅ 360 x 110 mm (14 x 4.5")	pneumatic tyres, max. 2.5 bar (36 psi)	
<u>Drive batteries</u>		
2 x 12 V 63 Ah (5 h) / 80 Ah (20 h)	sealed, maintenance free	
Max. battery dimensions (LxWxH)	260 x 168 x 215 mm	
Charging current		8 A / 12 A

Meaning of the labels on the electric wheelchair



Attention!

Read the operating manuals and other provided documentation.



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



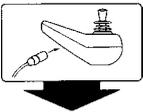
Drive mode



Push mode



Push only on level surfaces.



Indication for charging socket.



The electric wheelchair is **not** approved as a seat within a motor vehicle.



Indication for danger of jamming. – Do not reach in here.



Operation in moving transport vehicles. – Switch off or switch to driving program 3.



Indication for danger of jamming.

The upper part is attached flexibly or swivelling and thus forms a jamming area in the lower section.
– Do not grab into the jamming area.



Max. permitted user weight if the product is approved as a seat within a motor vehicle.

Meaning of the labels on the electric wheelchair



Attention!

Do not conduct maintenance jobs.

Gas pressure container of the pneumatic spring is under pressure.

– Increased danger of accident!

Meaning of the symbols on the washing instruction

(the symbols correspond to European standard)



Wash as delicates with the indicated maximum temperature in °C.



Wash as regular laundry with the indicated maximum temperature in °C.



Hand wash only



Do not bleach.



Not suited for the dryer.



Do not iron.



Do not dry-clean.

Meaning of the symbols on the type plate



Manufacturer



Order number



Serial number



Production date



Permitted user weight



max. permissible total weight



Permitted axle weights



Max. permissible rising gradient



Max. permissible falling gradient

max. ... km/h

Permitted maximum speed



The product is approved as a seat within a motor vehicle.



Max. permitted user weight if the product is approved as a seat within a motor vehicle.



The product is **not** approved as a seat within a motor vehicle.



Medical device

INSPECTION CERTIFICATE

Vehicle data:

Model:

Delivery note no.:

Serial-no.(SN):

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

Stamp of specialist dealer:

Signature: _____

Place, date: _____

Next safety inspection in 12 months

Date: _____

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

Stamp of specialist dealer:

Signature: _____

Place, date: _____

Next safety inspection in 12 months

Date: _____

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

Stamp of specialist dealer:

Signature: _____

Place, date: _____

Next safety inspection in 12 months

Date: _____

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

Stamp of specialist dealer:

Signature: _____

Place, date: _____

Next safety inspection in 12 months

Date: _____

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

Stamp of specialist dealer:

Signature: _____

Place, date: _____

Next safety inspection in 12 months

Date: _____

WARRANTY / GUARANTEE

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

National warranty-/ guarantee conditions between you and your specialist dealer can vary from the conditions mentioned in this chapter.

The guarantee period for this product is two years.

For batteries and charger the guarantee period is one year.

The starting date of the guarantee is the date of purchase.

We accept legal liability for this product within the scope of our general terms and conditions and warranty and in certain cases other verbal resp. agreed upon guarantees. For warranty and guarantee demands please contact your specialist dealer with following Warranty/Guarantee section and the there included information on model description, delivery note number with delivery date and serial number (SN).

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

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

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

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

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

This operating manual as a part of the product is to be handed out in case of a change of owner.

For rating our products you can use our website < www.ta-service.dk >.

We reserve the right to make technical improvements.



This product fulfils the requirements of the directive (EC) 2017/745 for medical devices.

Warranty / Guarantee section

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

Warranty / Guarantee

Model designation:

Delivery note no.:

SN (view type plate):

Date of delivery:

Stamp of the specialist dealer:

Inspection certificate for transfer

Vehicle data:

Serial-no.(SN):

Model:

Delivery note no.:

Stamp of specialist dealer:

Signature: _____

Place, date: _____

Next safety inspection in 12 months

Date: _____

Your specialist dealer

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