


Docking anchoring set

Model: TA IQ RWD
TA IQ FWD
TA IQ MWD

Assembly and user manual

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 adolescents should read this document if necessary together with their parents or a supervisor or accompanying person before first use.

The user manual at hand should help you get accustomed to the handling of your product.

This product is a technical aid. It is subject to explanations, requires regular care and can cause danger when used improperly. The correct handling must therefore be learned.

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

< www.meyra.com >.

-  Contact your specialist dealer when required.

Information about product safety and possible recalls of our products can be found in the < *Information center* > on our website: < www.meyra.com >.

The product meets the demands of ISO 7176-19.

LIST OF MODELS

This assembly and user manual is valid for the following model options:

TA IQ RWD
TA IQ FWD
TA IQ MWD

USE

The Dahl Engineering docking anchoring set is solely to be used together with a Dahl Engineering anchoring unit mounted expertly into a motor vehicle < www.dahlengineering.dk >.

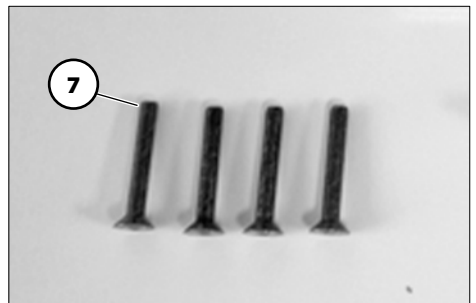
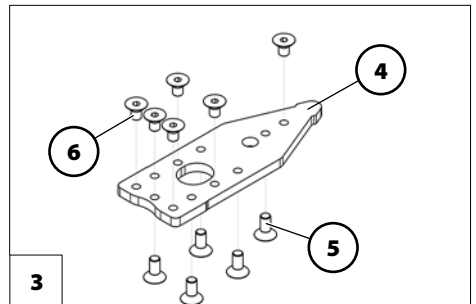
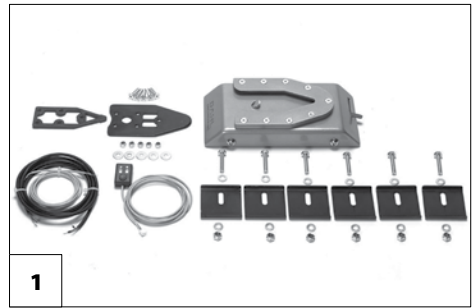
The wheelchair adaption kits [3] for both of the Dahl Engineering anchoring units [1] + [2] are identical and can be used for both anchoring units.

This product serves for automatic fixation of the wheelchair during the transport of people inside a motor vehicle in combination with the Adaption kit no. 503054.

ASSEMBLY INSTRUCTIONS

Scope of delivery

- (1) Dahl Docking Station MKII kit (no.501750)
- (2) Dahl VarioDock kit (no.503600)
- (3) Adaption kit for both docking systems (no. 503054)
- (4) 1x Adapter plate
- (5) 5x Countersunk screw (8x17mm)
- (6) 6x Countersunk screw (8x13mm)
- (7) 4x Countersunk screw (5x30mm)
- 1x Assembly and user manual



ASSEMBLY

The following assembly is to be carried out by a professionally qualified person.


Detailed information to the assembly tips of the Dahl Dockingstation inside the motor vehicle can be obtained per e-mail at: < sales@dahlengineering.dk >.

Safety instructions

The electric wheelchair is to be switched off during assembly in order to prevent unintentional rolling movements.

Watch for jamming areas during the complete assembly. – Danger of crushing!
Keep the working area clean during the assembly!

Mounting the docking set

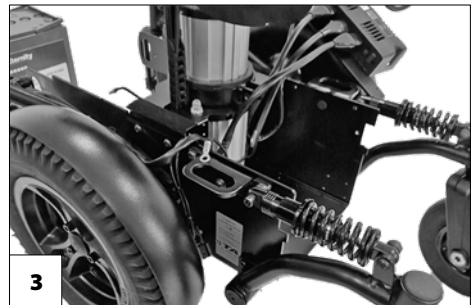
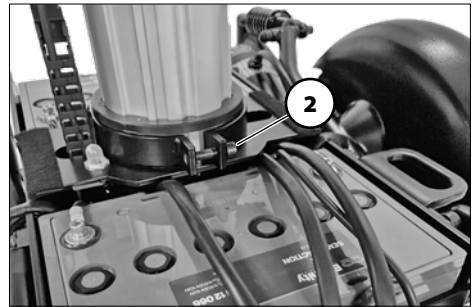
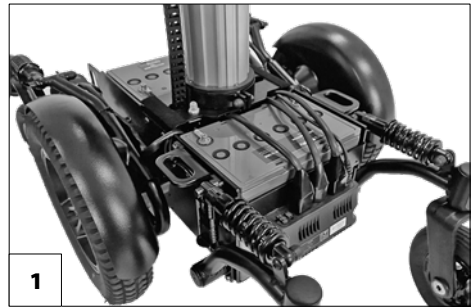
 When required a corresponding distancer (2) can be requested at < www.dahlengineering.dk >.

For safety reasons only use the included special countersunk screws no.502800.


Secure the countersunk screws with Loctite 222.

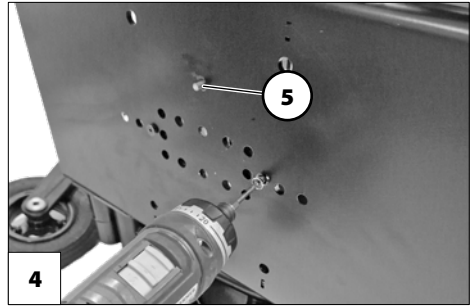
Observe torque of 20 - 22 Nm if not otherwise noted!

1. Drive the seat lift into the topmost position.
2. Open the battery case [1].
3. Remove the screw (2) that attaches the ring around the lifting piston.
4. Lower the seat lift by about half of the lifting distance.
5. Switch the electric wheelchair off.
6. Remove the batteries [3].
7. Lay the electric wheelchair on its side.




8. Loosen the 4 screws underneath the bottom of the electric wheelchair [4].


 In order to ease a later assembly of the lifting piston, loosen the upper screw first and saw off the head of the screw. Afterwards turn the screw back into the thread hole, so that about 10 mm of the screw is still visible above the thread hole (5).

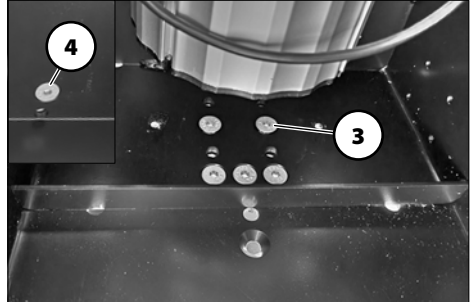
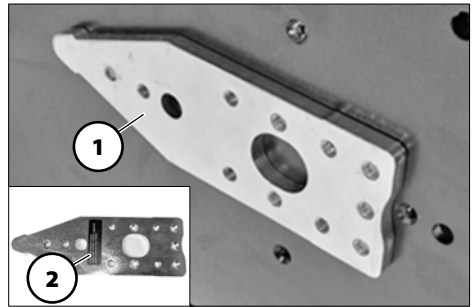


9. Pull the lifting piston about 10 cm out of the electric wheelchair.

10. Attach the adapter plate (1), facing the table (2) side up against the chassis, with 6 screws (8x13 mm) underneath the chassis. In doing so, guide the screws (3) from the top through the holes in the ground plate of the electric wheelchair and screw into the adapter plate.

 The tip of the adapter plate must face in driving direction of the electric wheelchair.

 One screw (4) is hidden behind the separation sheet.



11. With a flat tool (for example a ruler) check, whether the screws are sticking out of the holes [1].

☞ If the screws are sticking out of the holes, grind them flat (for example with an angle grinder) [2].

12. Guide the lifting piston back into the basic position in the battery box.

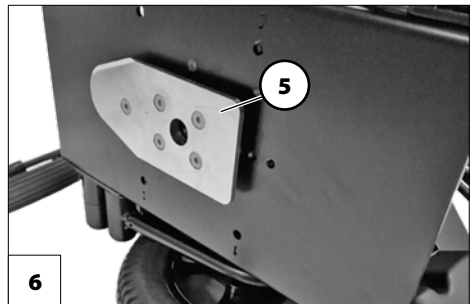
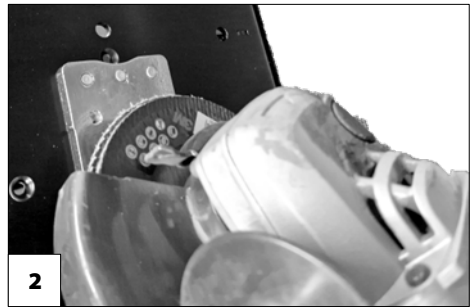
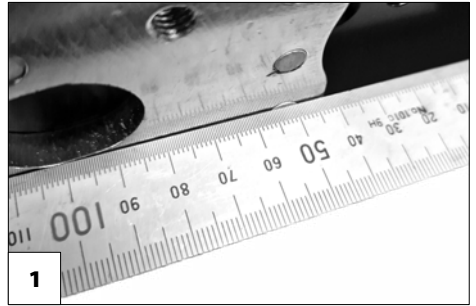
☞ If you placed the screw with the removed head into the lifting piston, you can use it to feel for the position of the hole and position the lifting piston.

13. Attach the lifting piston with 3 new screws (5x30mm) with 3.5 Nm torque. Afterwards remove the screw with the missing head and also replace it with a new screw (5x30mm) [3].

14. Mount the locking plate (5) with 5 screws (8x17mm) underneath the adapter plate (4). In doing so, guide the screws from the bottom through the locking plate and screw into the adapter plate [6].

15. Raise the electric wheelchair back onto its wheels and remount previously removed parts from steps 1-7 in reverse order.

16. Check and ensure the firm seat of the docking set in combination with the assembly inside the motor vehicle.



USER MANUAL

Safety instructions

The value noted on the label expresses the wheelchair's ground clearance (minus 1-2 mm). For the power height adjustable VarioDock™ this is the height that the display must be set to. For the MK II

this is the final height that the docking unit must be installed at. Failure to set/install the docking

unit to the correct height might impede the locking plate from sliding smoothly into the docking

unit, or prevent the Docking station and wheelchair from connecting altogether.

The installer of the locking plate must measure the ground clearance after installation and note

the final height on the label. Measurement must be taken with the user seated in the wheelchair.

Also make sure that the wheels are inflated to the correct tire pressure.

Finally, the label has to be attached to a location that is readily visible to a driver or an assistant.

Please refer to the Dahl Docking Station user and installation instructions for further details.

Ensure that the vehicle is suitably equipped to transport a passenger in a wheelchair and ensure that the method of access /egress is suitable for your wheelchair type.

The vehicle should have the floor strength to take the combined weight of the occupant, the wheelchair and accessories.

When using the wheelchair watch for the reduced ground clearance due to the mounted docking set. – Danger of accidents!

For handicapped transport inside a motor vehicle observe the document < *Safety with Meyra-wheelchairs, also during transport in motor vehicles* > on our website < www.meyra.com >.

Only drive wheelchairs equipped with the docking set into Dahl Engineering anchoring units.

Before use make sure that the product is functional. – Danger of accidents!

Do not use a loose locking plate to anchor the wheelchair. – Increased danger of accidents!

The user must be secured with a certified strap-retaining system.

MEYRA does not claim responsibility for damages that are caused by unattended minors in combination with the product!

Securing the wheelchair in the docking station

Do not move the vehicle:


- whilst the wheelchair is being maneuvered into position in the docking station
- If the wheelchair and user are not correctly secured.
- If the warning tone sounds and/or the red warning lamp (LED) in the control panel flashes or is lit!

Always check if the lock plate is properly engaged in the docking station by trying to reverse the wheelchair out of the docking station before moving the vehicle. (It must not be possible to reverse out of the docking station without pressing the red release button in the control panel).

1. Maneuver the wheelchair slowly and in a uniform direction over the docking station. The lock plate under the wheelchair helps to guide the wheelchair into place in the docking station. When the lock plate is fully engaged in the docking station, a spring-action locking pin automatically secures the lock plate.
2. The docking station is equipped with a control switch that indicates whether the lock plate is correctly secured in the docking station. As soon as the lock plate comes into contact with the locking pin, a warning tone will sound (a high-pitched howl), and the red diode/lamp (LED) in the control panel will light up until the lock plate is either fully engaged or else the wheelchair is removed from the docking station.
3. As an indication that the wheelchair is properly secured, the warning tone will cease, the red lamp (LED) in the control panel will go out and the green lamp (LED) will light up.

4. Do not forget to buckle up for driving.

Release from docking station

1. When the vehicle has been brought to a halt, remove the safety belt.
 2. To unlock commence by driving the wheelchair forward to release pressure on the lock pin.
 3. Press the red release button in the control panel. The locking pin will be triggered/ released for approx. 5 seconds, after which the locking pin is automatically locked/activated again.
 4. Move the wheelchair away from the docking station within this 5-second period. Do not attempt to reverse out of the docking station until the red LED on the control module, which indicates the unlock position, has been illuminated.
-  Attempting to reverse the wheelchair before the red LED has been illuminated will result in blocking the docking stations locking mechanism, which makes it impossible to reverse. If this happens repeat above unlocking procedure.

Manual release in case of electric failure

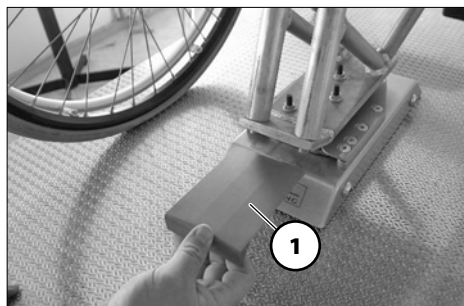
A manual emergency release is located at the front edge of the docking station.

1. Move wheelchair forward to remove the pressure on the lock pin and push the red release arm to one side and hold it there while the wheelchair moves away.
2. A cable-activated manual operating lever can also be fitted (accessory). The red release arm is also pushed to one side and should be held there whilst the wheelchair moves away.

⚠ If the described manual release procedures fails, an emergency release tool made from red plastic comes with each docking station.

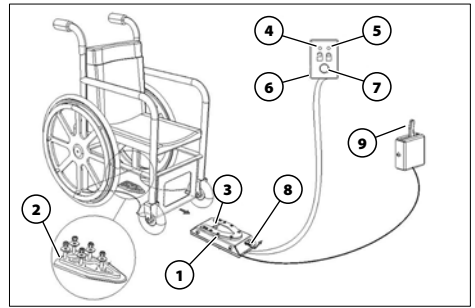
Emergency release

1. Move wheelchair forward to remove the pressure on the lock pin
2. Place the emergency release tool (1) in the gap between the locking plate and the docking station [2].
3. Push the release tool and wheelchair forward until the locking pin has been forced down - after which the wheelchair can reverse out of the docking station.



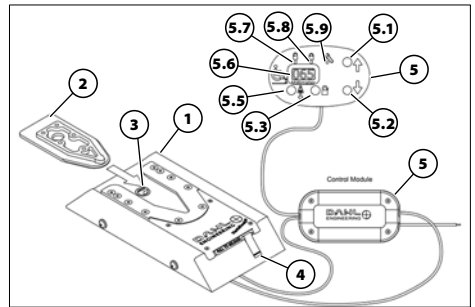
Overview Dahl docking station MKII

- (1) Dahl docking station
- (2) Lock plate and spacer
- (3) Lock pin
- (4) Red LED (wheelchair NOT secured, can be removed from docking station)
- (5) Green LED (wheelchair IS secured)
- (6) Control panel
- (7) Release button
- (8) Manual emergency release lever
- (9) Manual operating lever



Übersicht Dahl VarioDock™

- (1) Dahl VarioDock™
- (2) Lock plate and spacer
- (3) Lock pin
- (4) Manual emergency release lever
- (5) Control panel
 - (5.1) Adjust upwards (yellow button)
 - (5.2) Adjust downwards (green button)
 - (5.3) Release button (red button)
 - (5.4) Pull down to remove slack (blue button)
 - (5.5) Current measurement display
 - (5.6) Red indicator LED (wheelchair NOT secured, can be removed from docking station)
 - (5.7) Green indicator LED (wheelchair IS secured)
 - (5.8) Illuminated when maintenance required
- (6) Control module



Funktion of the docking station

The Dahl VarioDock™ (1) is designed to retain manual and electric wheelchairs, as well as Dahl's seat bases in the vehicle's floor. A control module (6) controls and monitors Dahl VarioDock™'s features, distributes power to the various components, as well as receiving and sending signals to and from the control panel. Wires are included.

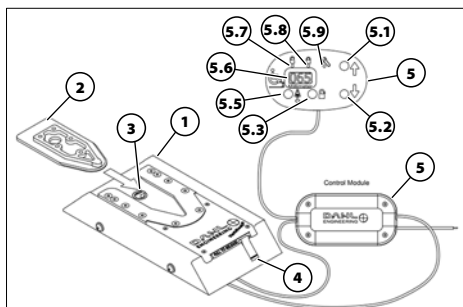
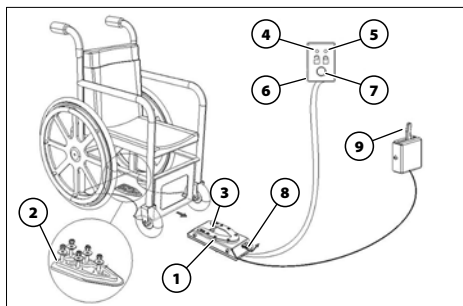
⚠ Do not carry out any modifications to the supplied wiring or other components.

A lock plate and an 8mm spacer (2) must be fitted under the wheelchair. When the wheelchair is manoeuvred towards the VarioDock™, the wheelchair is guided into place by means of the lock plate.

When the lock plate is fully engaged in the VarioDock, a spring-loaded lock pin (3) automatically secures the lockplate.

VarioDock™ is equipped with a built-in control switch that indicates whether the lock plate is correctly secured in the VarioDock™. As soon as the lock plate comes into contact with the locking pin, a warning tone will sound (a highpitched alarm sound), and the red LED (5.6) in the control panel will light up until the lock plate is either fully engaged or else the wheelchair is removed from the VarioDock™. With the wheelchair correctly secured, the warning tone stops and the green LED (5.7) in the control panel will light up to indicate, that the wheelchair is properly secured.

The control panel (5) is connected to an electromagnet which triggers/releases the lock pin for approx. 5 or 8 seconds, after which it is automatically locked once more.



In case of an electrical fault, there is a manual emergency release (4) on the front edge of the VarioDock. The release arm should be pushed sideways and held in order to release the wheelchair.

You can also use the emergency release tool, which is delivered with the VarioDock™. Fixation parts in the form of bolts, nuts, washers, etc., are included.

MAINTENANCE

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

Maintenance

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

- ✎ They do not give information about the actual extent of work required on the product.

Maintenance schedule

WHEN	WHAT	REMARK
After use	Check for extreme soiling Clean if required	Carry out the cleaning by yourself or by an aid.
Every 6 months (depending on frequency of use)	Check screwed connections for firm seat.	Carry out the test yourself or by a helper.
Manufacturer recommendation: Every 12 months (depending on frequency of use)	Safety inspection	To be carried out by the specialist dealer.

Cleaning

For cleaning it is recommended to use soap-solution. The detergent should in any case have a PH-value of no less than 6 (neutral cleanser).

Do not use any detergents that contain solvents.

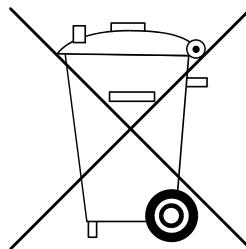
Repairs

Use only original spare parts. Make use of the service of your educated dealer.

DISPOSAL

The disposal must comply with the respective national law.

Please enquire about local disposal arrangements at your municipal authority.



TECHNICAL DATA

Dockingstation

Perm. user weight (including additional load)	136 kg
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A higher user weight indicated on the type plate of your wheelchair is limited by the permitted user weight of the docking station.

WARRANTY / GUARANTEE

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.

- Therefore observe chapter < *Warranty / Guarantee* > of the operating manual of your wheelchair.



This product is conform with the EC-directive 93/42/EEC (MDD) and fulfils up from 25th May 2021 the valid requirements of the regulation (EU) 2017/745 for medical devices.

205 352 701 (Status: 2024-04) All technical modifications reserved.

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