DIETZ Rehab

AS(01)
AS(01)RF

User manual
Adaptive wheelchair Version 3.2.0

EN

AS(01)

AS(01)RF

Record of product identification data

We recommend that you write down your product identification data from the nameplate in the table below, so that you have these on hand should you require any further information about your product (see Product labelling, fig.67)*.

TYP Type/model:	
REF Item No./REF:	
UDI Serial number (21):	
Date of manufacture:	
Other information/notes:	

* The identification data or the type plate may differ on custom-made devices

Thank you for deciding to purchase the AS[01] | AS[01]RF adaptive wheelchair from DIETZ

This wheelchair is a medical aid. In order to use it properly and avoid possible risks due to unintended use, you must become thoroughly familiar with its operation.

Read these operating instructions carefully before you begin to use your new AS[01] | AS[01]RF. They contain important safety instructions and valuable tips on correctly using the wheelchair.

In addition, you will receive information that will aid operational and traffic safety and the preservation of your investment in your adaptive wheelchair.

If you have any questions or require additional information, please contact the specialist retailer which supplied the wheelchair to you.

You can always find the latest information on your product on our homepage. For information or queries concerning product safety and on recalls, please contact DIETZ. You will find our contact information on the back of these operating instructions.

NOTE

A large-print version of the operating instructions is available for visually impaired persons at **www.dietz-rehab.de** in PDF format.

01 Important information

02 Product description

03 Setting up the wheelchair

04 Using the wheelchair

05 Individual adjustments

06 Technical data

07 Safety instructions

08 Instructions for general use

09 Manufacturer's declarations

INTENDED PURPOSE

The AS[01] | AS[01]RF wheelchair has been designed for indoor and outdoor use. It can either be propelled by the patient or by an attendant. The tauron|rsi is designed for a maximum load of 125 to 150 kg. You can verify this information on the product label attached to the frame. When attaching accessories in particular (e.g., electric drives), be sure that you do not exceed the maximum load.

It is suitable for long-term use and for short-term use.

The wheelchair is not suitable for children. The wheelchair shall not be used for the transport of more than one person or of cargo.

The intended purpose may differ for products which were manufactured as custom-made devices and which have been labelled as such. In this case, please refer to the documentation supplied with the product.

INDICATION

This wheelchair provides assistance for persons who are unable to walk or who have a severe walking impediment due to

- Paralysis
- Loss of limbs
- Limb defect/ deformation
- Joint contracture/ joint damage (not on both arms)
- other diseases

CONTRAINDICATION

Use of the wheelchair is unsuitable in the case of

- False sensations
- Severe disequilibrium
- Loss of limbs on both arms
- Joint contracture/joint damage on both arms
- Inability to sit
- Impaired or inadequate vision

SYMBOLS

Different symbols are used in this manual to give you warnings about potential dangers and helpful advice for the daily use of your wheelchair.

WARNING

It is mandatory to observe and comply with the warnings!

They draw your attention to the fact that failure to observe this may result in injury and/or damage to the wheelchair or the environment.

NOTE

Valuable tips and tricks to help you use your wheelchair.

The AS [01] | AS [01] RF is delivered from the factory completely assembled and packed in a box. If possible, please keep the packaging for possible later storage of the wheelchair. To get started you simply have to unfold the wheelchair and click the leg rests into place. In the following chapter you will find information on how to set-up the wheelchair for use and how to use it.

SCOPE OF DELIVERY

On receipt of the wheelchair, please immediately check to make sure that the contents are complete and undamaged. The contents consist of:

- Packaging
- Wheelchair as per the selected configuration
- Leg rests (pair; only for AS[01])
- User manual
- Accessories (if selected)

ACCESSORIES

- Amputee board
- Anti-tip wheels
- Step tube
- Brake lever extension
- Angle-adjustable leg rest
- Single-handed operation
- Parking brake, single-handed operation
- Foot plates, angle-adjustable
- Hemi-kit
- Height adjustable armrests for clothing protection
- Swivelling clothing protection
- Handles, height-adjustable
- Handles, foldable
- Spoke protectors
- Cane holder
- Therapy tray

STRUCTURE OF THE AS[01]

The AS[01] can be configured in numerous variants and thus customised to suit each user optimally. The overview represents all models and shows the most important components of the wheelchair.

Basic components

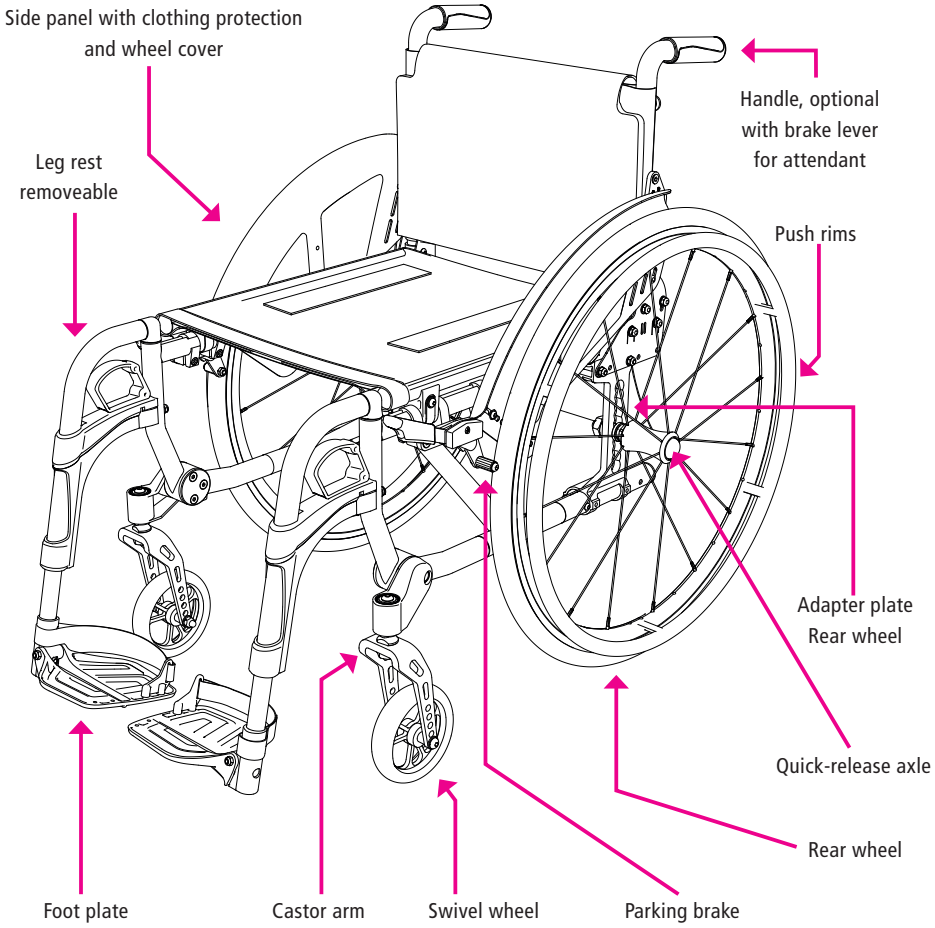

Fig. 1

STRUCTURE OF THE AS[01]RF

The AS[01]RF can be configured in numerous variants and thus customised to suit each user optimally. The overview represents all models and shows the most important components of the wheelchair.

Basic components

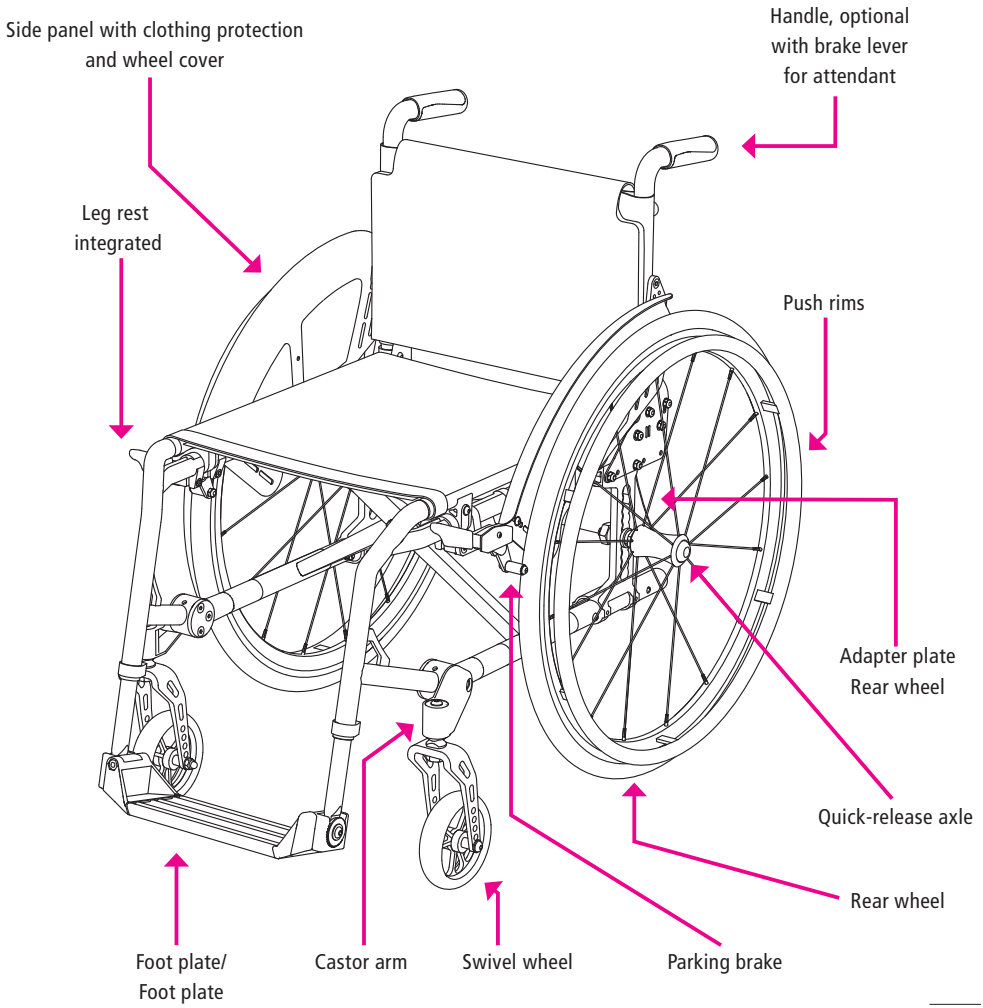

Fig. 2

The AS[01] | AS[01]RF is completely assembled at the factory. To get started you simply have to unfold the wheelchair and click the leg rests into place. In this following chapter you can find some information about how to set up and use your wheelchair. You can find information about simple settings and adjustments that can be done without any tools.

In chapter **»03 Setting up the wheelchair«** you can find explanations for all adjustments that can be made without using tools, with which you can adjust your wheelchair to your requirements.

The chapter **"05 Individual adjustments"** contains explanations of all the more complicated adjustment options, such as the seat height, angles etc., that can be used for optimal adjustment.

NOTE

The initial set-up should be carried out by trained personnel of the medical supplies shop.

3.1 Unfolding the wheelchair

1. Push the left and right seat tube downwards with your hands at the same time. The wheelchair will now unfold itself (1, Fig 3.).
2. When the wheelchair is completely unfolded, please check whether both seat tubes are correctly located in the slots provided.
3. Then put on the back cushion and close the Velcro fastener at the lower back of seat cushion.

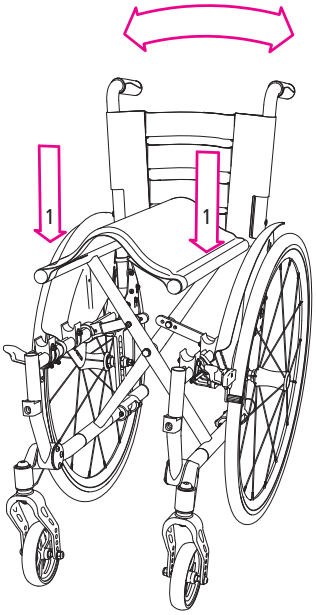

Fig. 3

WARNING

Risk of trapping!

Pay attention to your fingers when folding and setting up the wheelchair and only touch the parts shown.

3.2 Folding up the wheelchair

1. Firstly, unfasten the Velcro fastener on the lower end of the back cushion (under the seat) (1, Fig 4).

NOTE

The back cushion can remain on the wheelchair and doesn't have to be completely removed.

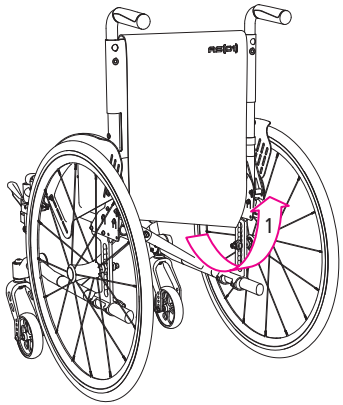

Fig. 4

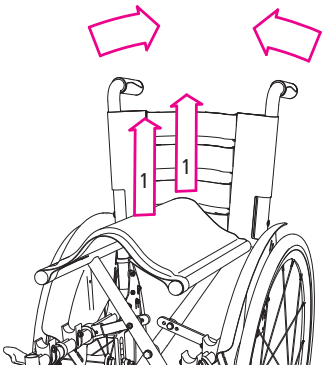

Fig. 5

2. Now pull upwards - front and rear - in the middle of the seat cushion (1, Fig 5). The wheelchair then folds up automatically.

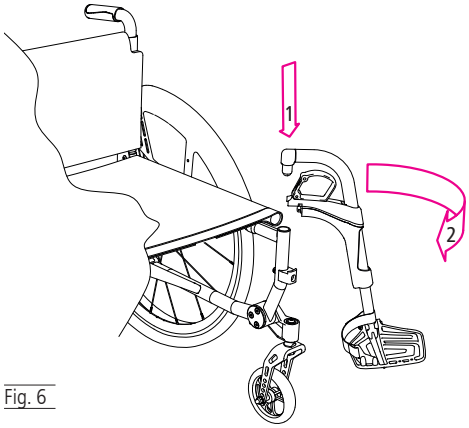

Fig. 6

3.3 Attaching the leg rests (only AS[01])

WARNING

Before performing any action on the leg supports, the wheelchair must be secured to prevent it unintentionally rolling away.

1. Insert the upper pin of the leg rest from above into the holder provided on the frame (1, Fig. 6).

2. Now swivel the leg rest forwards in the direction of travel. It then engages audibly and noticeably into its end position (2, Fig. 6).

3.4 Foot plates/foot board

1. The foot plates (1, Fig. 7) or the optionally selected foot board (1, Fig. 8) are adjusted to the correct position by swinging them upwards or downwards.
2. The foot board, depending on the side it is assembled on, can be swivelled upwards or downwards to the left or right (1, Fig. 8).

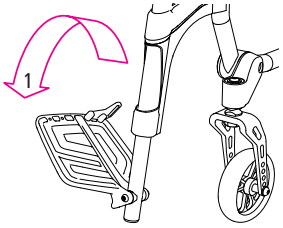

Fig. 7

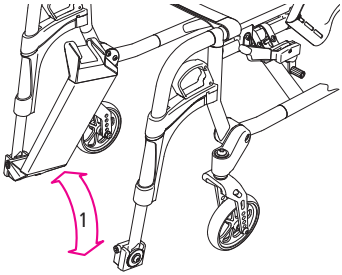

Fig. 8

WARNING

Risk of trapping! Please pay careful attention to your fingers when swivelling the foot plates/ foot board downwards.

3.5 Adjusting the backstraps

1. First remove the back cushion.
2. The four Velcro straps are now freely accessible.
3. Now unfasten the straps (1, Fig, 9) and adjust the length (2, Fig. 9) until you have found a comfortable sitting position.
4. Then place the back cushion back on top.

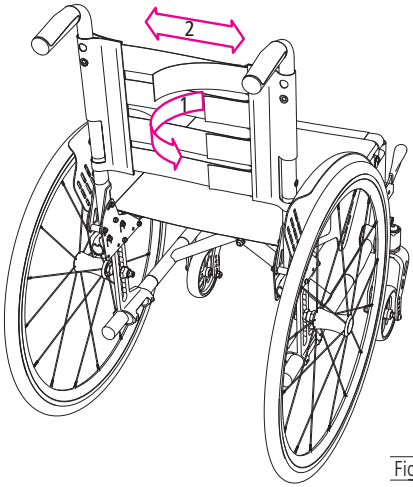

Fig. 9

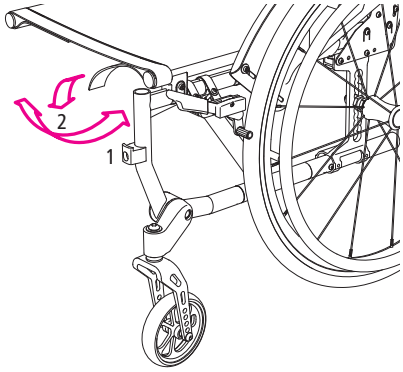

Fig. 10

3.6 Adjusting seat height

1. First unfasten the Velcro strap underneath the front of the seat cushion (1, Fig. 10) and then the straps on the seat tubes on the side.

2. You can now tag the strap towards the back underneath the cover of the seat (2, Fig. 10). This reduces the seat height by 30 mm.

USING THE WHEELCHAIR

4.1 Sitting down and getting up

The various individual clinical pictures or disabilities limit freedom of movement or the ability to manoeuvre to a greater or lesser extent.

To sit down in your wheelchair and get up again easily and safely, please proceed as follows.

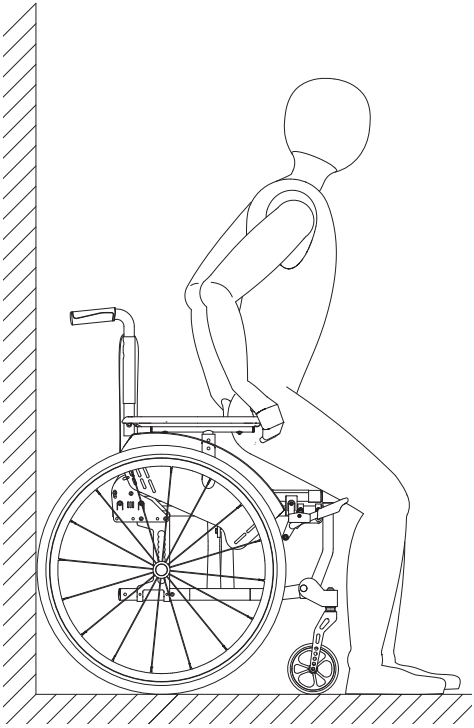

Fig. 11

NOTE

Place the back of the wheelchair against a stable wall. This ensures that the wheelchair cannot slip away on smooth surfaces.

Sitting down

1. Release the leg rests and swivel them to the outside.
2. If possible, place the wheelchair with the rear wheels against a stable wall.
3. Lock the wheelchair in place with the two wheel locks.
4. Move as close to the wheelchair as possible, turn around and carefully move backward until your legs touch the edge of the seat.
5. Now use your hands to grasp the arm rests and use them as supports.
6. You can slowly and safely lower yourself into the wheelchair.
7. Next, you can swivel the two leg rests towards the front in the direction of movement. Make sure that you hear the clicking noise when the leg rests lock into place.
8. Use your feet to fold the two two foot rests downward and place your feet on the foot rests.

Getting up

Proceed in reverse order to get up and out of the wheelchair.

NOTE

To transfer sideways, swivel the side pieces upward if necessary (Chapter 4.15).

WARNING

Do not stand on the foot plates or footboard while getting up or sitting down. They are not intended to bear the full weight of one person.

4.2 Propelling and slowing down the wheelchair with the push rims

The wheelchair can be manoeuvred forwards, rearwards and left to right by using the push rims on the rear wheels.

1. To do this, hold the push rims with your hands and turn the wheel towards the front or back (Fig. 12). Place your hand on the push rim with the thumb in the direction of movement and form a fist enclosing the push rim.
2. To slow down, let the push rim glide through your hand in a controlled manner.
3. To steer the wheelchair, slow down the push rim on the side to which the wheelchair should move or turn.
4. To turn on the spot, push one hand forwards and the other hand backwards at the same time.
5. To turn the wheelchair, turn the wheels in the opposite direction using the push rims.

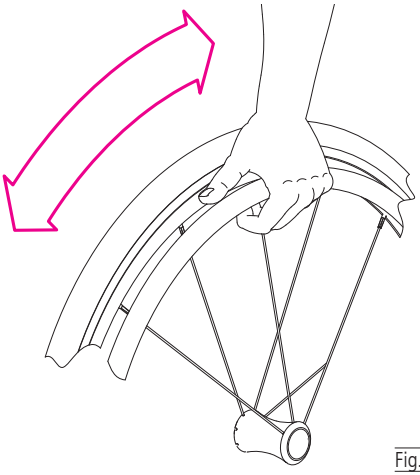

Fig. 12

WARNING

To avoid hand injuries, when the wheelchair is in motion, do not grip between the spokes or between the rear wheel and the parking brake.

WARNING

The handrails can become very hot after longer braking manoeuvres.

WARNING

When propelling your wheelchair, make sure that you do not touch the tyre casing with your thumb.

Risk of trapping between the tyre and side-guard/armrest!

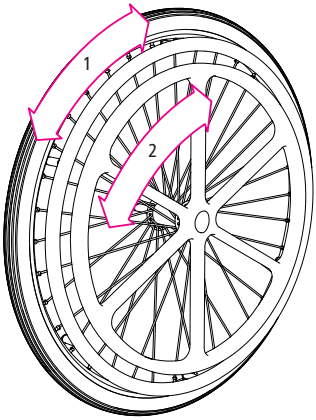

Fig. 13

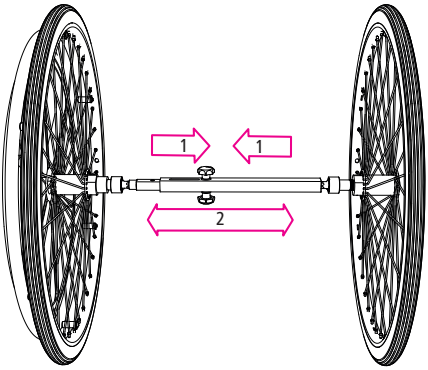

Fig. 14

4.3 Single-handed operation (optional)

The one-hand drive enables the wheelchair to be driven from one side as required due to disability.

1. Both push rims are pushed together to drive straight ahead (1+2, Fig.13).
2. The outer push rim (1, Fig. 13) steers the active side and the inner one (2, Fig. 13) the passive side.

Folding/unfolding the wheelchair with single-handed operation

1. The connecting rod must be removed before folding (Chapter 3.2).
2. To do this, grasp the connecting rod and pull it together towards the centre (1, Fig. 14).
3. The connecting rod can now be removed from the extended axle for single-handed operation should be stowed safely until it is reinserted.
4. If single-handed operation is to be used again, the wheelchair must first be unfolded (Chapter 3.1). The spring-loaded connecting rod can then be assembled onto the axle of the single-handed drive (2, Fig. 14).

You can find the installation instructions for your product on our website.

4.4 Parking the wheelchair with the parking brake

The parking brakes are always applied to secure the wheelchair against unintentional rolling away.

1. The parking brake is locked by pushing the lever forward/down (1, Fig.15). The brake engages in this position.
2. The brake is released again by pulling the lever upwards (2, Fig. 15).

If a brake lever extension or single-handed operation is installed, then lock the parking brake as described in points 1 and 2.

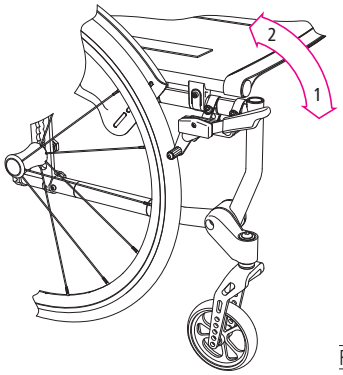

Fig. 15

WARNING

Never use the parking brake to stop the wheelchair when it is in use – always use your hands on the push rims to slow down. The parking brake is only intended for parking.

WARNING

For the optional pneumatic tyres, always ensure that the tyres are sufficiently inflated. When the tyre pressure is too low the parking brake performance is reduced.

WARNING

Always lock both brakes, since one side is not enough to keep the wheelchair safely in place.

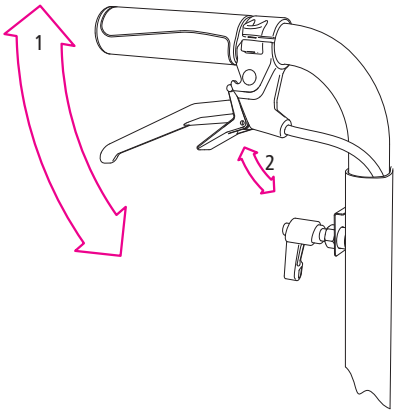

Fig. 16

4.5 Braking by an attendant (optional)

1. Pull the brake level upward to stop the wheelchair in a controlled manner (1, Fig. 16).
2. To park the wheelchair, you can lock the brake lever. To do this, pull the small locking lever upwards as well (2, Fig. 16). The locking lever will then engage automatically. To release the brake simply pull the brake lever upwards and the locking lever will release automatically.

WARNING

For safe parking, the parking brake must be locked on both sides as well.

NOTE

Always use the left and right brake simultaneously. Using only one side will make the chair very hard to manoeuvre.

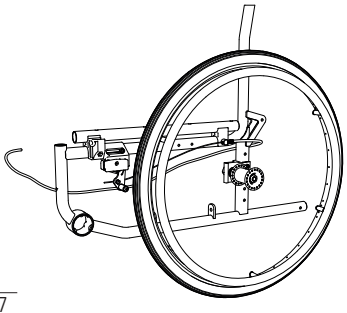

Fig. 17

4.6 Parking brake, single-handed operation (optional)

The parking brake for single-handed operation enables the wheelchair to be braked safely from one side as required due to disability.

You can find the installation instructions for your product on our website.

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4.7 Using the wheelchair on inclines, slopes, steps and edges

Before you drive up or down gradients/steps and edges with your wheelchair, you should practice with an attendant. In these driving situations, the tipping risk is increased, which is why DIETZ recommends the use of anti-tipping supports for inexperienced drivers. The braking power is significantly lower in such driving conditions as compared to on even ground. Potholes, moisture, snow, grit and dirt can also cause the wheelchair to tip over in these situations.

When driving up inclines and up a step/edge, lean your upper body forward (1,2, Fig. 18).

When driving down slopes and down a step/edge, lean your upper body backwards (3,4, Fig. 18)

WARNING

Never drive down slopes and steps/edges without braking, only at reduced speed.

WARNING

Stairs with more than two steps must be driven with the support of an attendant.

WARNING

Never try to drive up/down inclines or gradients diagonally.

WARNING

The stability on slopes/gradients depends on the configuration of the wheelchair, the skills and the driving style of the user. Since the user's skills and driving style cannot be predetermined, the maximum safe descent gradient cannot be determined. This must be determined by the user with the help of an attendant in order to prevent tipping over.

For inexperienced users, the installation of anti-tipping supports is strongly recommended.

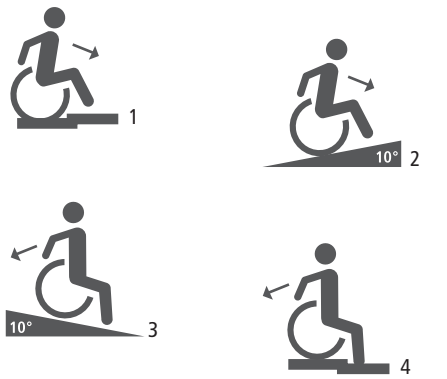


Fig. 18

WARNING

Hanging loads on the wheelchair affects the tipping stability. Therefore, DIETZ recommends the use of anti-tipping supports.

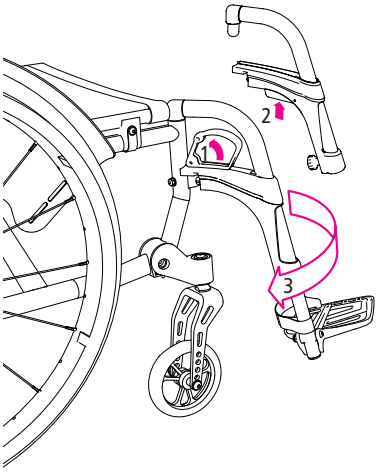


Fig. 19

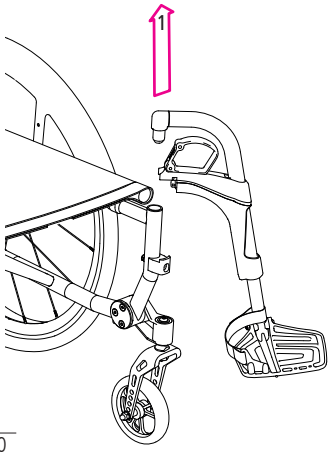


Fig. 20

4.8 Loading the wheelchair

Additional loads (backpacks or similar objects) up to max. 5 kg can be hung from the push handles as long as the max. user weight is not exceeded.

4.9 Swivelling and detaching the leg rests

WARNING

Before performing any action on the leg supports, the wheelchair must be secured to prevent it unintentionally rolling away.

1. To remove the leg rests, first fold the foot plates up (Chapter 3.4).
2. To release the leg rest lock pull on the lever (1, Fig. 19) or press the button mechanism (2, Fig. 19).
3. The leg rests can now be swivelled outwards (3, Fig. 19).
4. Now you can pull upwards on the leg rests and remove them (1, Fig. 20).

To insert the leg rests see Chapter 3.3.

4.10 Anti-tip wheel (optional)

The anti-tip wheel increases the resistance to tipping over backwards. They should be fitted at a distance of 30 to 50 mm from the ground.

To pass over a high step/edge, the anti-tip wheels must be swivelled. This prevents the wheelchair from touching down.

1. Push the anti-tip wheel downwards with your hand (1, Fig. 21).
2. The anti-tip wheel can now be swivelled inwards (2, Fig. 21).
3. To activate the anti-tip wheel push the tube downwards (1, Fig. 22).
4. Now the anti-tip wheel can be swivelled back again (2, Fig. 22).

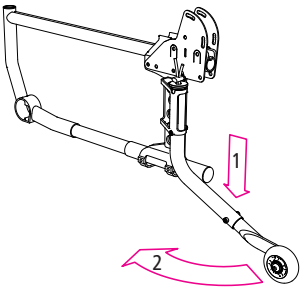


Fig. 21

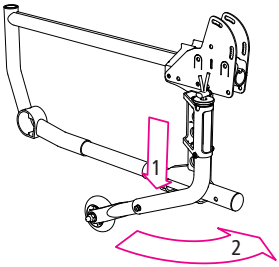


Fig. 22

WARNING

In certain situations, the anti-tip wheels cannot offer sufficient protection against rollover.

4.11 Handle height adjustment (optional

5. Loosen the clamping lever screw by one or two turns (1, Fig. 23).
6. Adjust the handle to the desired height (2, Fig. 23).
7. Then tighten the locking screw securely again (1, Fig. 23).

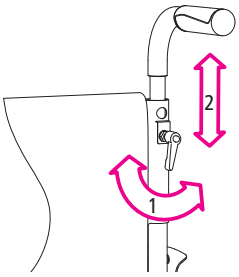


Fig. 23

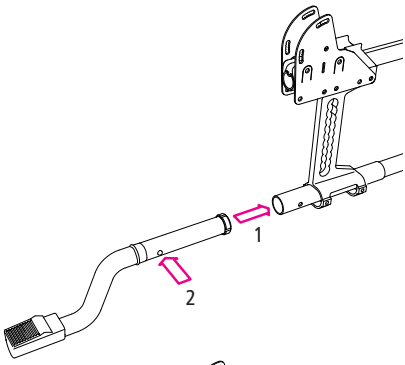


Fig. 24

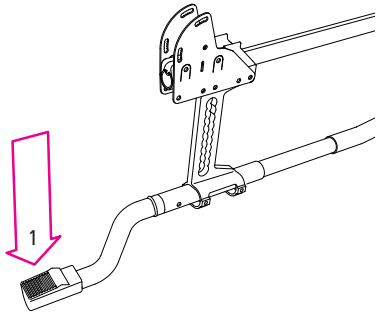


Fig. 25

4.12 Step tube (optional)

1. Remove the cover cap from the frame.
2. Slide the step tube into the frame (1, Fig. 24). The pin clicks in audibly (2, Fig. 24).

The step tube enables the attendant to tilt the wheelchair and therefore move it over obstacles more easily.

1. If an anti-tip wheel is fitted, first swivel it inwards (Chapter 4.10).
2. Place your foot onto the lever (1, Fig. 25) and maintain balance using the handle.
3. A step or edge can now be easily passed over with the wheelchair.

4.13 Remove and attach rear wheels

1. Pressing the button in the centre of the wheel hub releases the rear wheel lock (1, Fig. 26).
2. Now you can simply pull the rear wheel away from the chair.

NOTE

Push the quick-release button while engaging the wheels. The axle/wheel will engage a lot easier.

WARNING

After connecting the wheels make sure that the quick-release axles are engaged properly.

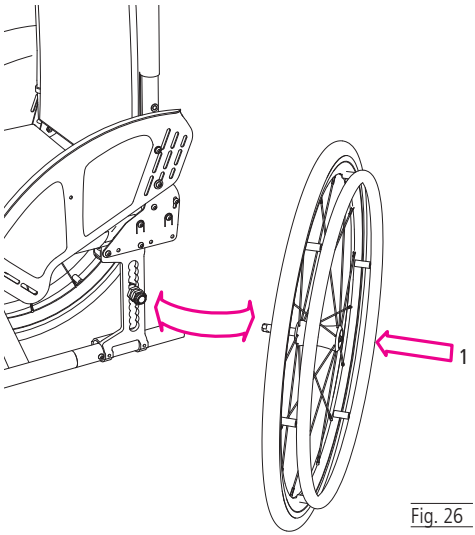


Fig. 26

4.14 Swinging side panels upwards (optional)

To make getting in and out of the chair easier, as well as for side transfer, you can swivel the side panels up/back.

1. To do this, pull the small locking lever gently upwards (1, Fig.27).
2. The side panel lock is now released and you can swivel the complete side panel upwards/backards (2, Fig. 27).
3. The lock automatically engages with an audible and noticeable click when the side panel is pushed back to its original position.

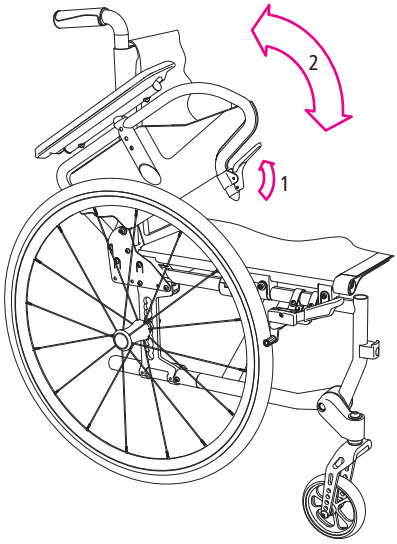


Fig. 27

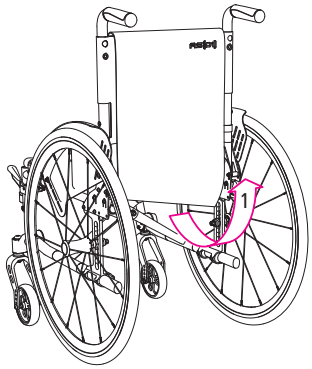


Fig. 28

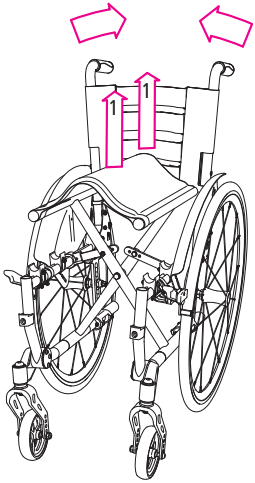


Fig. 29

4.15 Transport

Transport of the wheelchair without user

For transportation in a car, airplane, train or even just to make space, your wheelchair can be conveniently folded together. It then takes up very little space and can be easily stored. If necessary, it can also be disassembled into its portable elements.

The folding dimensions for your seat width can be found in the technical data.

1. Fold up the foot plates and leave the wheelchair.
2. Components that can easily be detached from the wheelchair when stowed should be removed and stored in a suitable, safe place. (such as table, walkers, cushions, leg rests, etc.)
3. To fold the wheelchair, if necessary, loosen the flap of the backrest under the seat (1, Fig. 28).
4. Then pull the cover upwards in the middle of the seat (1, Fig.29). The wheelchair then folds automatically.
5. In addition, the rear wheels fitted with quick-release axles can also be removed easily.

NOTE

Please check the individual transportation requirements of the airline-/railway company regarding the packacking/dimensions for the wheelchair transportation.

To set up the wheelchair again refer to the instructions under chapter **»03 Setting up the wheelchair«**.

Using wheelchair as a passenger seat in a vehicle

Wheelchairs are not designed for use as passenger seats in vehicles and do not provide the same level of safety as regular vehicle passenger seats, regardless of how well they are fastened and secured inside the vehicle. DIETZ therefore recommends to seat wheelchair users on regular vehicle seats whenever possible.

The AS[01] | AS[01]RF wheelchair is tested according to ISO 7176-19 and can be used as a seat in a passenger vehicle. As such, it bears the corresponding markings according to ISO 7176-19 (Fig. 30/Fig. 31).

Tests were conducted using a H3 50% dummy (78 kg) and a headrest

Passenger cars designed for transporting wheelchair users while seated in a wheelchair have to have a wheelchair space in accordance with the German Road Traffic Licensing Regulation (StVZO).

All wheelchair spaces in a vehicle have to be provided with a wheelchair and wheelchair occupant restraint system capable of restraining the wheelchair and its occupant. The vehicle owner and driver must provide vehicle-integrated restraint systems compliant with either ISO 10542 or DIN 75078-2 (Kraftknoten) and make sure they are used in accordance with the regulations.

WARNING

Failure to obverse these instructions can result in severe bodily injury and danger to life!

Fig. 30

Fig. 31

ISO 7176-19
Crash-tested label

WARNING

Always ask the carrier whether the respective vehicle is designed, insured and equipped to carry a person in a wheelchair.

WARNING

The AS [01] | AS [01] RF has been tested in the direction of travel according to ISO 7176-19/ ISO 10542. For safety reasons, it must not be used/secured in such a way that the user would face backwards or sideways to the direction of travel. _

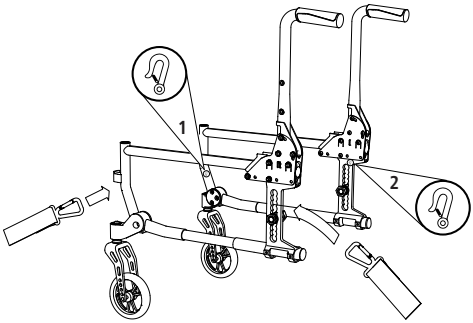


Fig. 32

1 Front attachment point AS [01]
2 Rear attachment point AS [01]

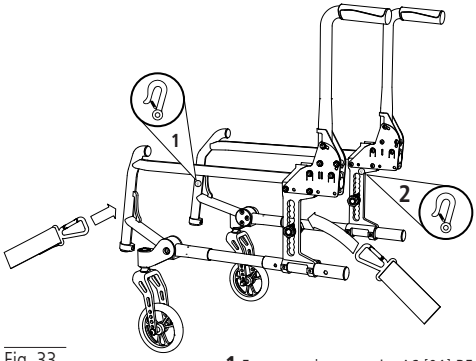


Fig. 33

1 Front attachment point AS [01] RF
2 Rear attachment point AS [01] RF

Attaching the wheelchair restraint systems

To secure the wheelchair without Kraftknoten, only an ISO 10542 certified 4-point wheelchair restraint system with tension belts is used, which is designed for the total weight of the wheelchair.

The 4 tie down strap attachment points on the wheelchair are marked with a hook symbol see AS[01] (1, 2, Fig. 32) and AS[01]RF (1, 2, Fig. 33). All 4 anchor points must be used. It is mandatory to position the wheelchair in the direction of travel in line with ISO 10542 (WTORS). Under no circumstances may the wheelchair be tied down using other restraint points (e.g. anti-tip bars, wheel spokes, armrests). No modifications must be made to the transport anchor points of the wheelchair without the permission of DIETZ.

The wheelchair restraint system must be fitted inside the vehicle as described in the restraint manufacturer's installation manual.

The AS [01] was also tested with the AMF-Bruns Kraftknotensystem (DIN 75078-2/ISO 10542-2). Please follow the manufacturer's installation instructions (amf-bruns-behindertenfahrzeuge.de) when securing the restraint system with a power knot system. The restraint system must be fitted by qualified and expert personnel.

Wheelchair occupant restraint system

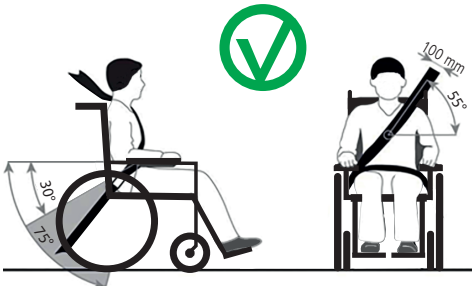
The wheelchair restraint system must be secured first. The wheelchair user is secured according to ISO 10542 by an appropriate restraint system.

When doing so, the following must always be ensured:

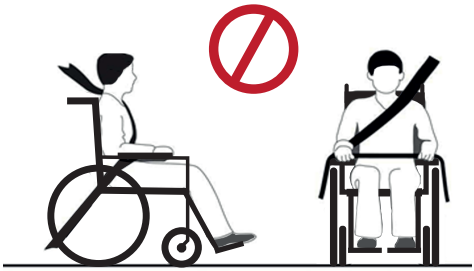
- Fasten the shoulder and lap belt. Both of these belts must be fastened quite tightly, but not so tight as to cause discomfort to the wheelchair user and must not be twisted.
- The upper part of the safety belt must run across the torso and shoulder/ collarbone.
- The lap belt must run at an angle of 30° to max. 75° from the horizontal but under no circumstances greater than 75° (Fig.34).
- Safety belts must not be routed over components of the wheelchair, such as armrests or wheels, which would hold it away from the body. (Fig. 35).
- Only products that are certified according to ISO 7176-19/ISO 10542 or DIN 75078-2 (tie-downs) and have been identified accordingly by the manufacturer may be used as a restraint system.
- The wheelchair's parking brakes must be fully engaged throughout the drive.

WARNING

The geometry of the attachment points (or of the fastening system) must be adjusted with just as much precision as the wheelchair user's safety belts to ensure that a wheelchair user seated in a wheelchair inside a vehicle will be safety transported. Non-observance of these requirements can put the wheelchair user's life at risk in the event of an accident.



Correct way to attach the safety belts Fig. 34



Wrong way to attach the safety belts Fig. 35

- Remove any components that can easily come free from the wheelchair, such as a therapy tray or walking aids etc., before beginning the journey. Keep them in a suitable safe place.
- Do not raise manually moveable/ height-adjustable footrests when the wheelchair is being occupied during a journey and if the wheelchair has been secured with a restraint system and safety belt.
- Adjustable backrests must be put in the upright position.
- The wheelchair user's safety during transport depends on the care with which the restraint system has been secured. The person having secured the restraint system must be trained or instructed in the use of the system.

Wheelchairs that have been involved in an accident must be checked by a DIETZ service technician before any further use.

IMPORTANT NOTE

WARNING

Only certified technical specialists may carry out the setting options illustrated and described in the following chapter. Accidents may result from incorrect modification of the wheelchair.

Incorrectly adjusting the brakes may have life-threatening consequences.

Accessories are sometimes required for the settings described below. Only original accessories from DIETZ may be used. Only then is the compliance and thus the safety of the product guaranteed.

5.1 Tools

The following tools are required for the settings:

1. Allen key (3, 4, 5, 6)
2. Wrench (10, 13, 19, 26)
3. Cross tip screwdriver

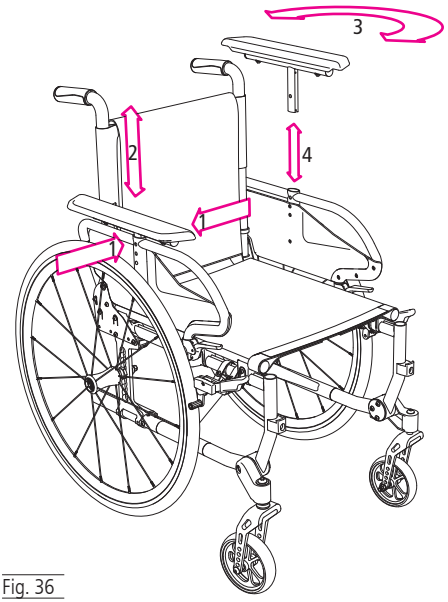


Fig. 36

5.2 Armrests (optional)

If your AS [01] | AS [01] RF are equipped with armrests, you can adjust their height and length.

1. To adjust the height, loosen the screws (1, Fig. 36).
2. Then adjust the armrest to the desired height and position (2, Fig. 36).
3. To select the length (desk or long), remove the armrest completely, rotate it 180° (3, Fig. 36) und then insert it again on the opposite side (4, Fig. 36).
4. Insert the screw again and tighten it firmly (1, Fig. 36).

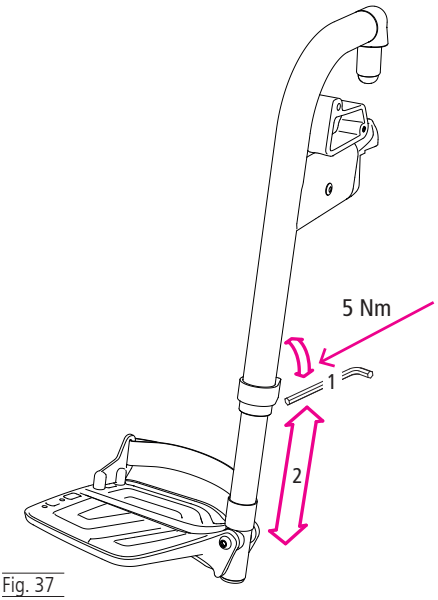


Fig. 37

5.3 Lower leg length adjustment

1. Loosen the allen screw on the back (1, Fig. 37) by one or two turns. The foot plate tube is now free and be slid upwards or downwards.
2. When you have found the correct height (2, Fig. 37) tighten the screw up (5 Nm) (1, Fig. 37).

WARNING

Pay attention to the hole pattern in the tube of the footplate. If the screw does not snap into one of the holes provided, a secure screw connection cannot be guaranteed and the leg rest may be damaged.

EN

5.4 Foot plate/foot board angle adjustment (optional)

1. Loosen the screws on the inside (1, Fig. 38) and outside (2, Fig 38) a few turns. Now you can set the desired foot plate angle (3, Fig. 38).
2. Then tighten the screws (1, 2, Fig. 38) again (3 Nm).

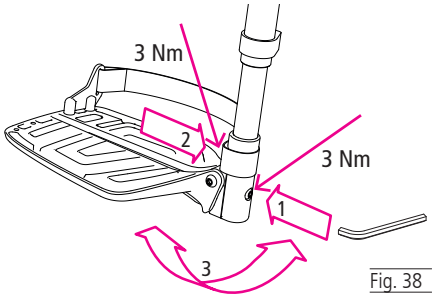


Fig. 38

5.5 Angle-adjustable leg rest (optional)

1. To insert the leg rests, proceed as described in chapter 3.3.
2. To swivel the leg rests away, press the push button (1, Fig. 39) or pull the locking lever (2, Fig. 39) forwards.

Adjusting the length:
1. Loosen the hexagonal screw (3, Fig.39) by one or two turns. The foot plate tube is now free and be slid upwards or downwards.
2. Finally, tighten the screw firmly again.

Position calf pads:
1. Loosen the two socket head screws in the calf pad holder (4, Fig. 39)

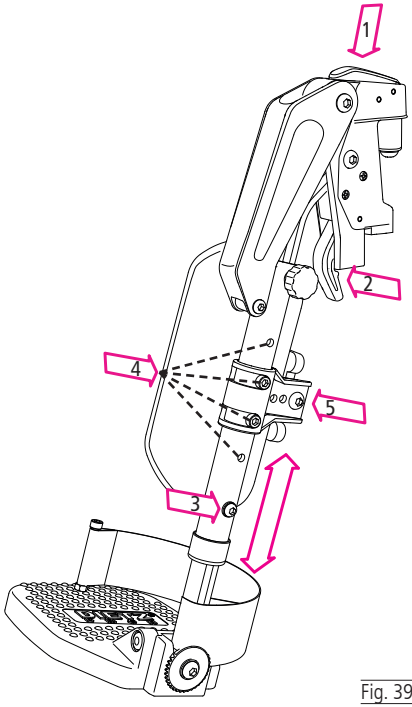


Fig. 39

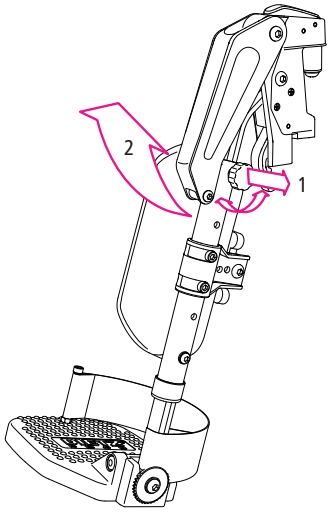


Fig. 40

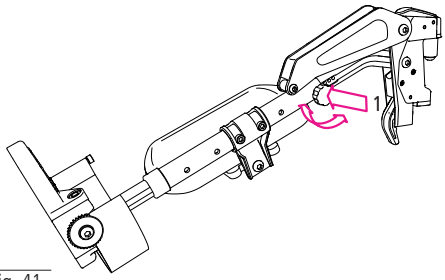


Fig. 41

WARNING

Risk of trapping! There is a risk of trapping on moving parts. In proximity of moving parts extra caution is required.

2. When you have found the correct height (4, drill holes) tighten the screws up.
3. Loosen the hexagonal screw (5, Fig.39) for the height adjustment.
4. When you have found the desired height, tighten the screws again handtight

Adjusting the leg rest angle:
The leg rest can be set at an angle of 112° to 189°.

1. To do this, loosen the locking screws until the screw head can be pulled out easily (1, Fig. 40) and release the lock
2. Now you can adjust the leg rests to the desired angle (2, Fig 41).
3. When you have found the desired leg rest angle, release the screw head over the desired position hole to allow the screw to engage.
4. Finally, tighten the screw hand-tight again (1, Fig. 41).

5.6 Amputee board (optional)

1. Remove the leg rest (Chapter 4.9).
2. Grasp the amputation board by the cushion and insert the upper pin of the leg rest from above into the holder provided on the frame.

Adjust the angle and height:
1. Release the clamping lever (1, Fig. 42).
2. The amputation pad can now be adjusted to any angle and in three height settings.
3. Finally, tighten the clamping lever again (1, Fig. 42).

Adjusting the height
1. Loosen the star grip screw (2, Fig. 42).
2. The amputation pad can now be adjusted to any height.
3. When you have found the desired height, tighten the screw again handtight.

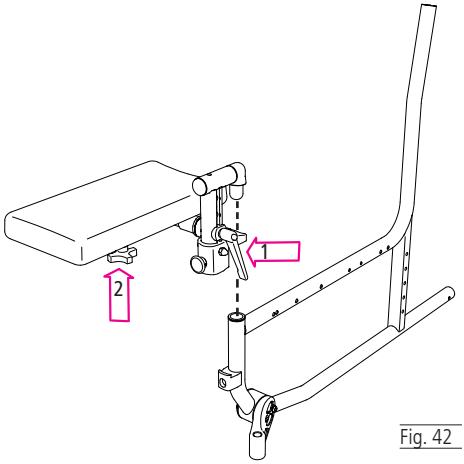


Fig. 42

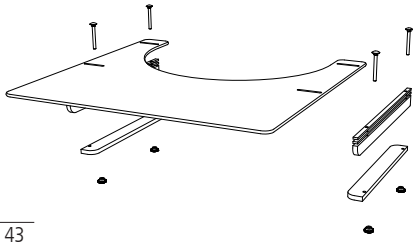


Fig. 43

WARNING

Before moving the wheelchair with the therapy tray, remove any loose objects or containers with liquids.

5.7 Therapy tray (optional)

The therapy tray is mounted using a set of rails. For further information, see the assembly instructions delivered along with the therapy tray.

WARNING

Do not use aggressive or granular cleaning agents to clean the acrylic sheet, otherwise the sheet could become cloudy or scratched.

WARNING

Do not place any hot objects on the therapy tray.

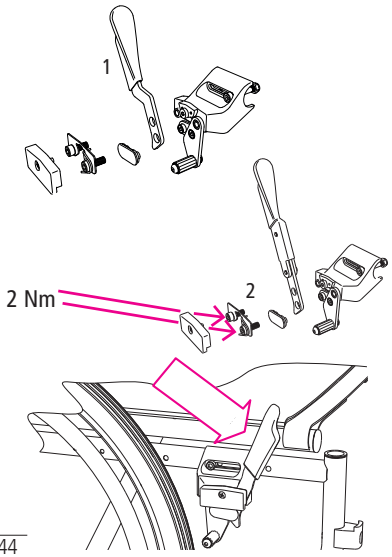


Fig. 44

5.8 Brake lever extension (optional)

The operating forces are reduced by the long lever.

1. Remove the standard brake lever completely, as shown in the diagram (1, Fig.44).
2. Attach the brake lever extension to the chair (2, Fig. 44) in the reverse order.
3. Make sure that the brake pad is at the correct distance from the tyre surface (Chapter 5.17) and that the braking effect is even and sufficient on both sides.

5.9 Seatback angle adjustment

1. Loosen the two screws (1, Fig. 45) and remove them completely.
2. You can now adjust the back in 5 positions (- 5 °, 0 °, 5 °, 10 °, 15 °) according to your needs.
3. Then reinsert the screws and the spacer sleeve and tighten them.

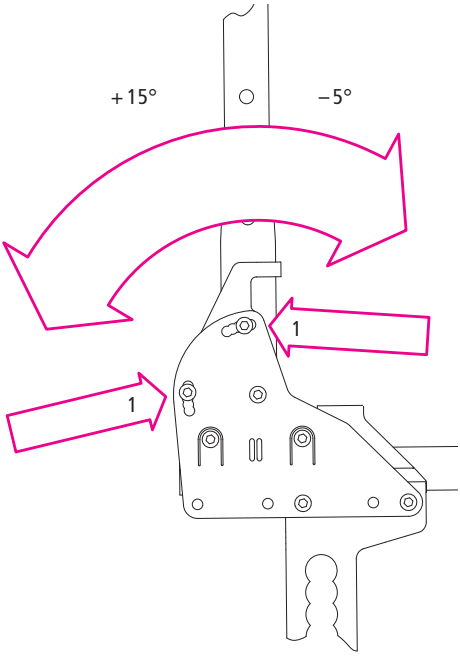


Fig. 45

WARNING

Please note that the risk of tipping increases significantly if the back angle is very positive (10 °/15 °).

In this case, we strongly recommend using anti-tipping supports.

5.10 Seatback height adjustment

The height of the seatback cushion can be set in two positions (+/– 30 mm).

1. To do this, loosen the Allen screw (1, Fig. 46) on the top of the back tube (or the thumb screw of the height adjustment in the case of height-adjustable handles).
2. Move the seatback cushion to the desired position (2, Fig. 46) and then insert the screws again.

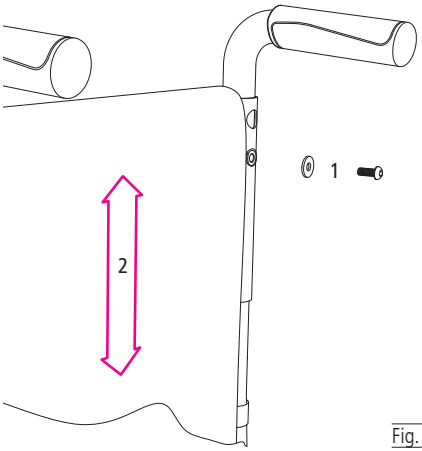


Fig. 46

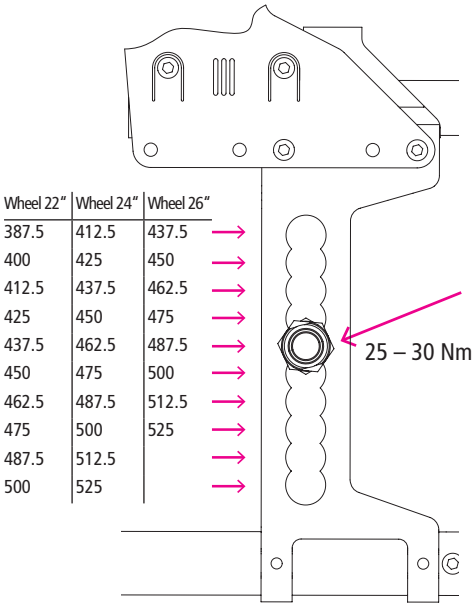


Fig. 47

5.11 Rear seat height adjustment

With the selectable wheels, the rear seat height of the AS [01] | AS [01] RF can be set in a range from 387.5 mm to 525 mm.

1. To adjust the rear seat height, remove the rear wheels and loosen the screw connection of the quick-connect axle socket.
2. Then reinsert the socket at the desired position in the row of holes (Fig. 47).

WARNING

We strongly advise against choosing a rear seat height higher than the front one.

There is a risk of the wheelchair user falling forwards out of the wheelchair.

NOTE

Factors such as seat angle, camber angle, tires, etc. influence the seat height.

Therefore, the listed values are to be understood as guide values with a tolerance of approx. +/- 10 mm.

5.12 Setting the rear wheel position (active/passive)

The position of the rear wheel (centre of gravity) can be moved forwards or backwards in 6 steps of 20 mm each. The position is measured relative to the back tube, with the negative area (active, - 20 to - 80 mm) at the front, the positive area (passive, +20 mm) at the back.

1. To vary the position of the rear wheel, the adapter plate is moved forwards or backwards (1, Fig. 48).
2. To achieve intermediate increments, the plates are exchanged from left to right and rotated by 180 ° (1, Fig. 49).

WARNING

The position of the rear wheels has an enormous impact on the stability of the wheelchair.

When the rear wheel is in an active position, anti-tipping supports must be used.

+20 mm

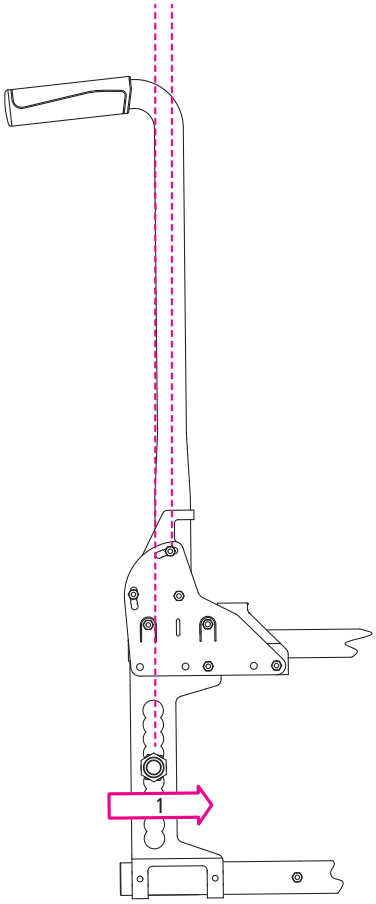


Fig. 48

−80 mm

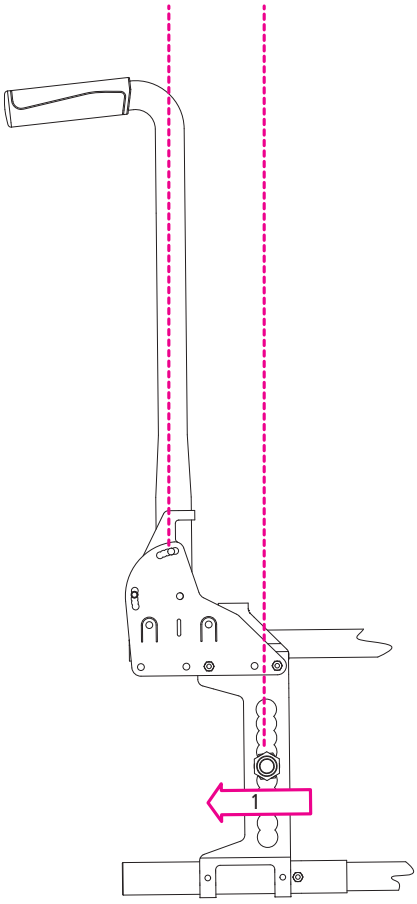


Fig. 49

NOTE

+20 mm corresponds to a wheelbase extension and is recommended e.g. with lower leg amputation or additional electrical drives for increased tipping stability to the rear.

- 80 mm for very agile driving behaviour for experienced wheelchair users

5.13 Rear wheel camber adjustment

The rear wheels can either be mounted vertically (0 °/standard) or with a 3 ° camber for agile, sporty driving. The adjustment is done in 2 steps.

Step 1

1. To change the camber, loosen the screws (1,2, Fig. 50) to the connecting plate for the back tube.
2. Remove the two plastic crescents. You can now swivel the entire rear wheel adapter plate outwards or inwards.
3. Then insert both crescents and the screws (1, Fig. 51) on the opposite side.

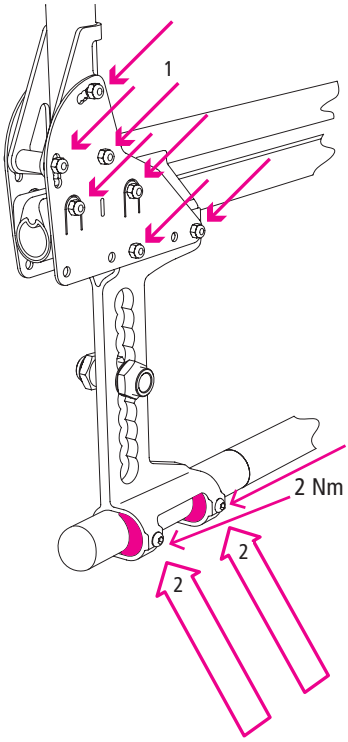


Fig. 50

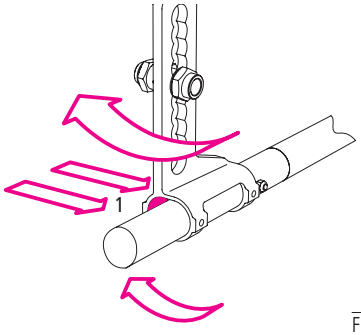


Fig. 51

Step 2

1. The connecting plates to the back tube are bent according to the camber angle and must now be installed in the correct position.
2. For clear identification, the plates are marked with the numbers I (2 x), II, III (Fig. 52).
3. When the 4 plates are in the correct position, reinsert and tighten all screws (1, Fig. 50). Now also tighten the locking screw securely again (2, Fig. 50).

WARNING

It is important that the plates are installed in the correct position according to the camber angle, otherwise the frame will warp.

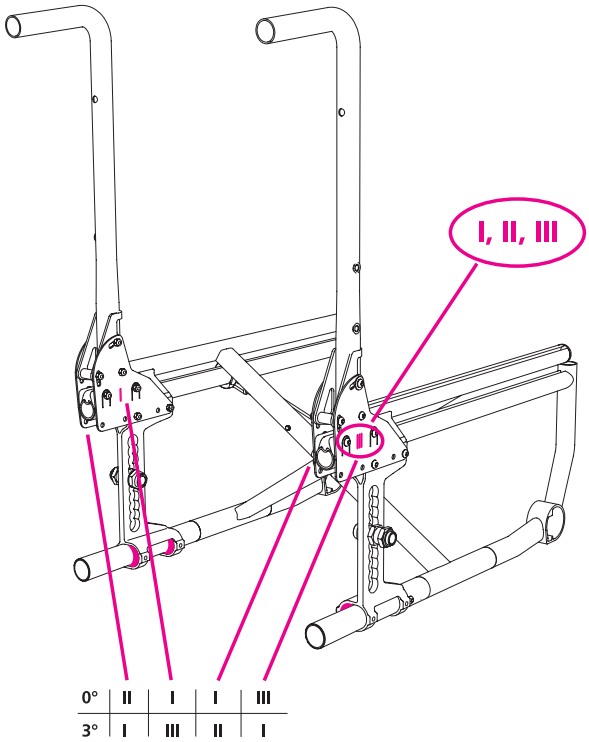


Fig. 52

5.14 Setting the front seat height

The front seat height of the AS [01] | AS [01] RF can be adjusted in a range from 412.5 to 525 mm depending on the front wheel (125 mm/175 mm) (Fig. 53-55). The setting is made partly by using the different holes in the wheel fork and by swapping the castor arms from right to left.

This allows the castor arm to be mounted in either a high or a low position.

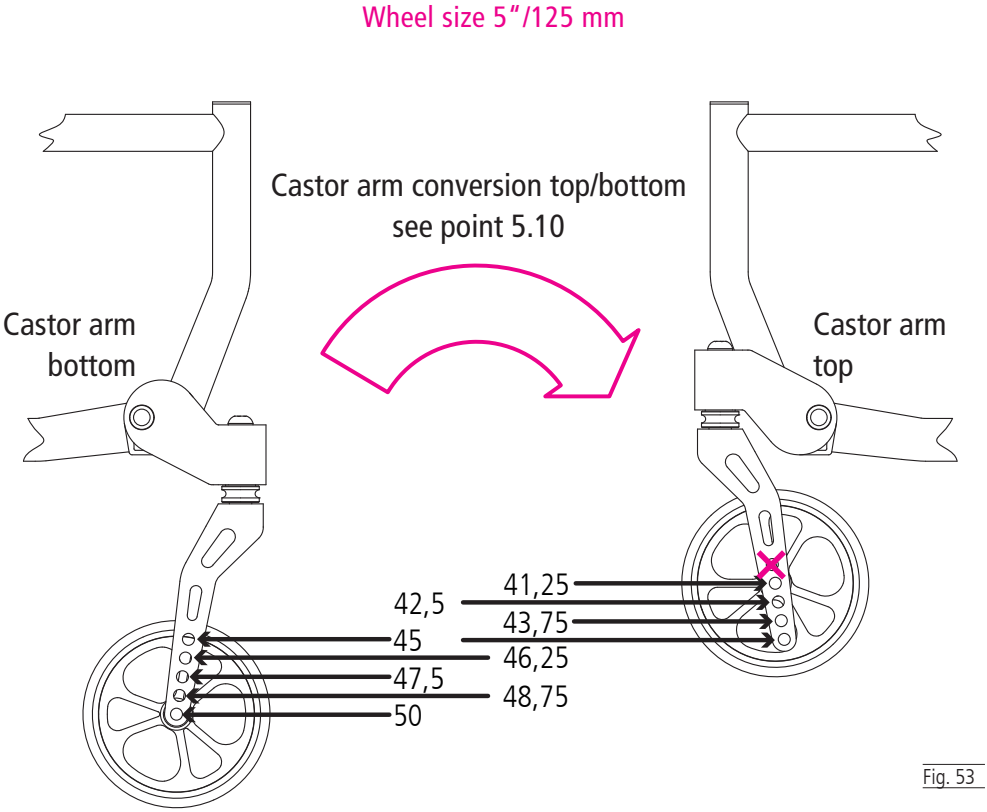


Fig. 53

NOTE

Factors such as seat angle, tires, etc. influence the seat height. Therefore, the listed values are to be understood as guide values with a tolerance of approx. +/- 10 mm.

Wheel size 6"/150 mm

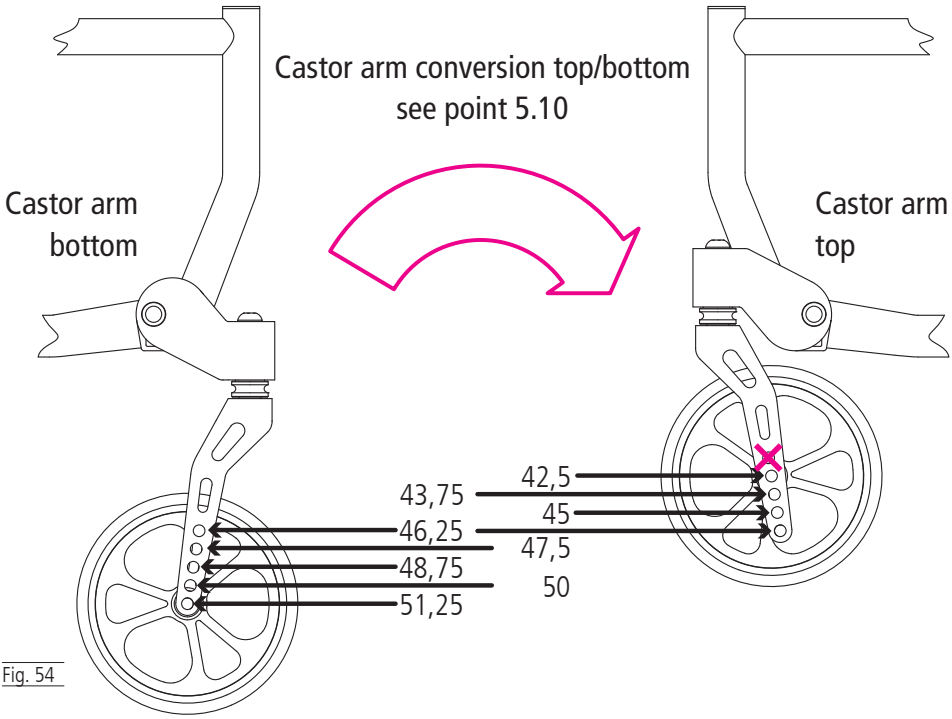


Fig. 54

NOTE

Factors such as seat angle, tires, etc. influence the seat height. Therefore, the listed values are to be understood as guide values with a tolerance of approx. +/- 10 mm.

Wheel size 7"/175 mm

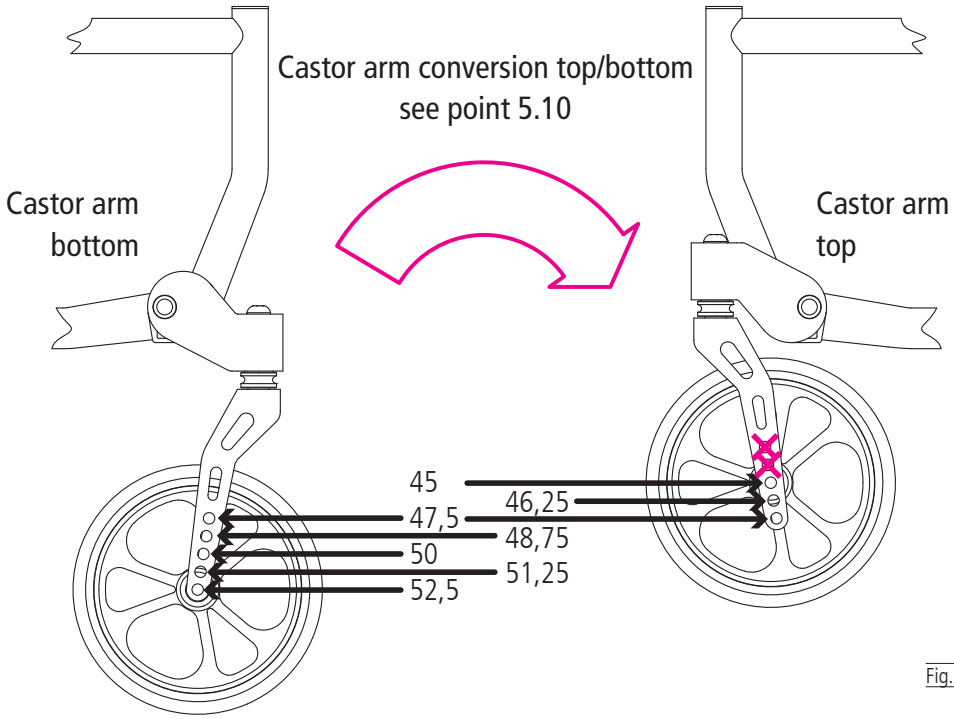


Fig. 55

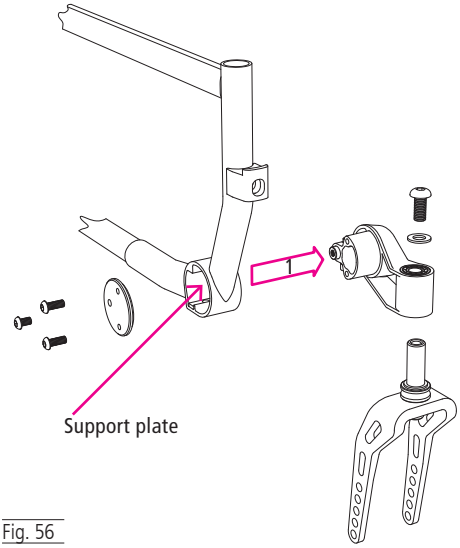


Fig. 56

5.15 Installation of the castor arms top or bottom (adjust the front seat height)

In order to achieve very large and very small front seat heights, the castor arms can be mounted with upwards or downwards orientation. The castor arms are swapped from left to right. This changes the front seat height by +/- 50 mm.

1. To move the castor arms from left to right, first remove the front wheels and wheel forks.
2. Then loosen the 3 fastening screws (4 mm) on the inside of the frame.
3. You can now remove the cover cap and pull the castor arm outwards (1, Fig. 56). Please make sure that the support plate is not lost.
4. Now unscrew the angle adjustment screw completely (1, Fig. 57) and reinsert it in the opposite direction (2, Fig. 57).

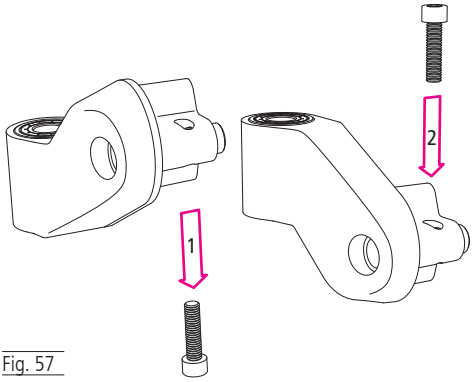


Fig. 57

EN

5. You can now reinsert the complete castor arm on the opposite side of the wheelchair (1, Fig. 58).
6. It now points in the opposite direction (up/down). Please make sure that the support plate is correctly inserted again. Now put the cover cap back on and screw it back on using the three screws provided (2 x long, 1 x short).
7. Then mount the wheel forks and front wheels in the desired position. For the corresponding wheel position for the desired front seat height, see Chapter 5.14.
8. Finally, move the castor angle back into the vertical position as per Chapter 5.16.

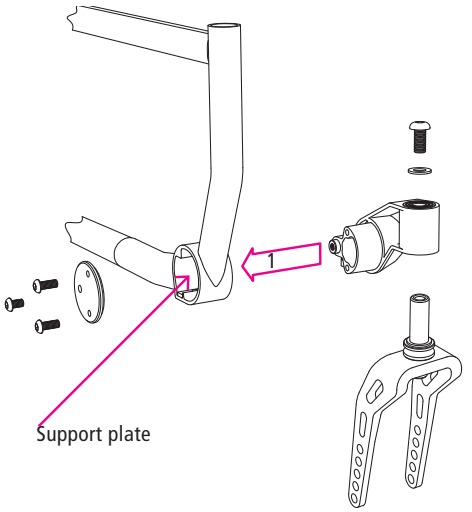


Fig. 58

WARNING

Please make sure that the support plate is not lost and is reinserted in the correct position.

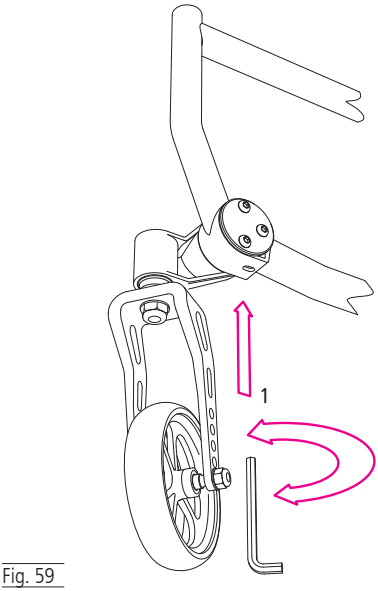


Fig. 59

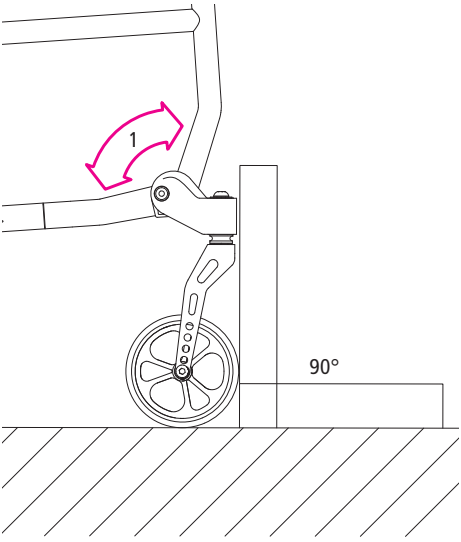


Fig. 60

5.16 Seat angle adjustment

The angle of the castor arms must be adjusted according to the seat angle, which results from the set seat heights at the front and rear.

This angle must be set so that the axes of the steering forks (= castor angle) are perpendicular to the ground.

This adjustment option is used only to compensate for the seat angle. A castor angle that deviates from 90 ° will always have a negative impact on the wheelchair's driving behaviour.

1. To adjust the castor angle, loosen the 3 screws on the inside of the frame by a few turns.
2. You can now insert a 5 mm Allen key through the hole in the bottom of the castor housing and adjust the angle by turning (1, Fig. 59) (1, Fig. 60).
3. Then tighten all screws again.

NOTE

For precise adjustment, we recommend using a 90° try square.

5.17 Parking brake adjustment

The distance between the brake pivot and tyre is critical for the parking brake effectiveness. When the brake is fully open, this distance should be 14 mm (Fig. 61).

With pneumatic tyres, please make sure that your tyres are inflated to the correct air pressure.

NOTE

The tyre pressure strongly influences the effect of the brake. If the tyre pressure is too low, the brake may fail. The recommended tyre pressure is shown on the side wall of the tyre casing.

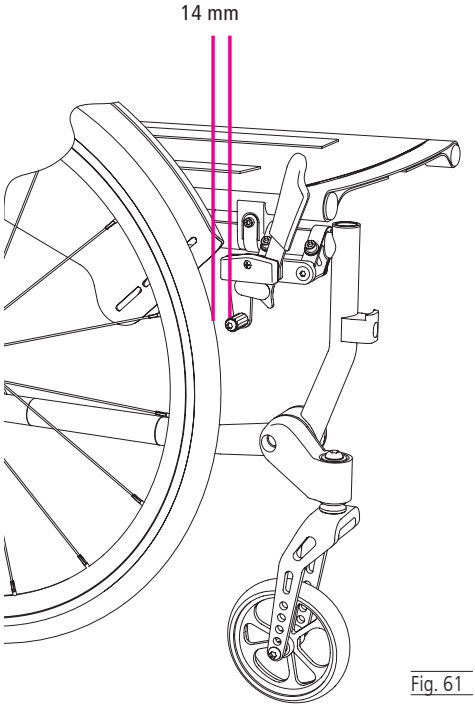


Fig. 61

You can adjust the brakes by moving the brake carrier together with the brake on the side frame.

1. To do this, loosen the two clamp screws that connect the brake carrier to the side frame (1, Fig. 62).
2. You can now move the brake carrier until the desired distance is reached (2, Fig. 62).

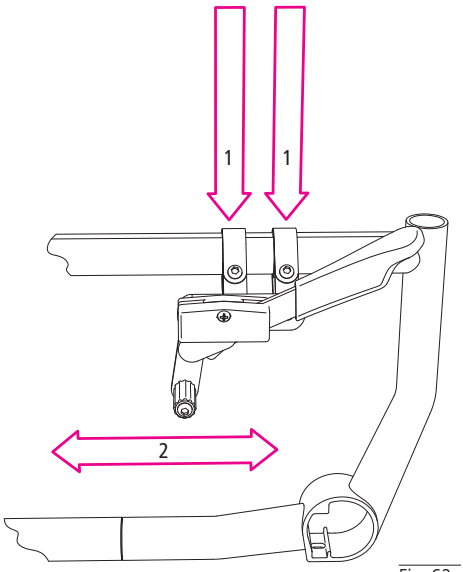


Fig. 62

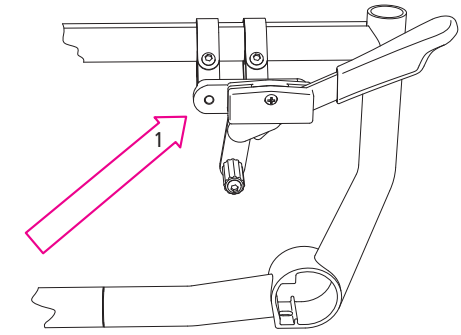


Fig. 63

3. Then tighten both screws again (1, Fig. 62).
4. Depending on the positioning of the rear wheel, it may also be necessary to move the cross brace support blocks in order to bring the brake into the correct position (1, Fig. 63).

NOTE

In the case of low seat heights, it may be necessary to mount the brake carrier facing forward.

5.18 Accessories and add-ons from external suppliers

In general, only original accessories from DIETZ GmbH may be used. If third-party products are installed on the wheelchair, responsibility for the safety of the product passes to the person who installs the accessories or carries out the installation. The compliance of the combination of accessories or add-on and product is then new, and must be declared by the person who attaches it. The compliance declared by DIETZ according to MDR 2017/745, Annex II expires.

WARNING

If accessories or add-ons are added to the wheelchair, then the safety instructions in the operating instructions for the accessories or add-ons must be observed.

WARNING

Should add-ons or accessories that are not sold by DIETZ are used, the safety of the product can not be guaranteed.

DIETZ'S MEASUREMENT SYSTEM

The dimensions given here refer to the standard configuration of the wheelchair and may vary depending on the wheelchair model and configuration.

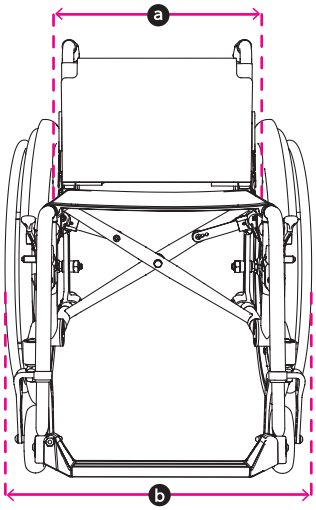


Fig. 64

WHEELCHAIR TOTAL WIDTH

The AS[01] | AS[01]RF is a configurable product. Depending on the selected accessories in combination with the seat width, the product may exceed the recommended overall width of 700 mm.

NOTE

All dimensions taken on textile parts (e.g. back upholstery) are to be understood with a tolerance of +/– 10 mm.

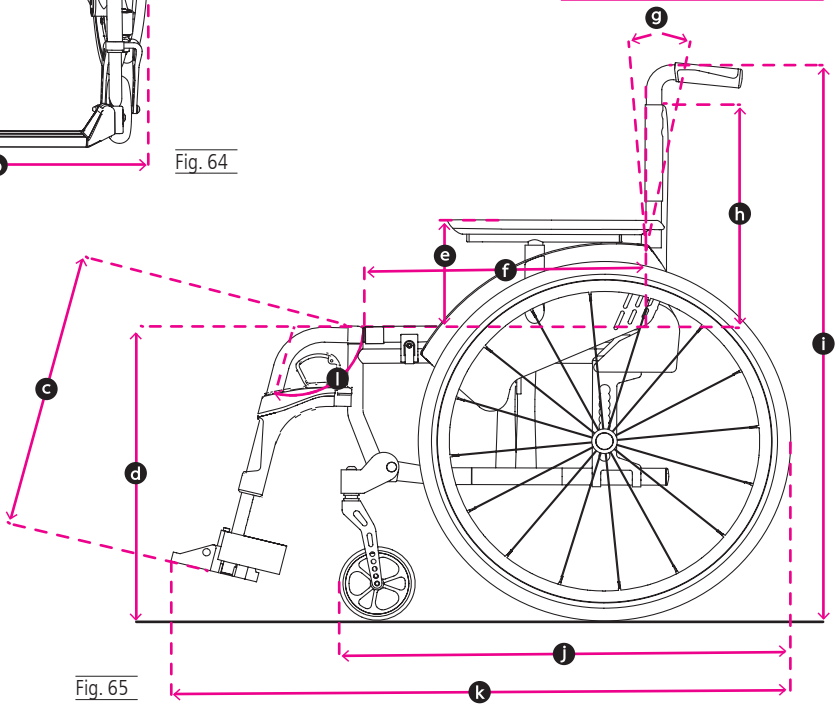


Fig. 65

DIMENSIONS AND MASS AS[01]

	Technical specifications		up to 125 kg Min.	up to 125 kg Max.	up to 150 kg Min.	up to 150 kg Max.
k	Total length with leg rests [1]	mm	840	900	960	1020
b	Total width [2]	mm	560	740	560	740
i	Total height	mm	790	1140	790	1140
j	Total length folded without leg rests	mm	720	780	840	900
	Width when folded	mm	280	300	280	300
i	Height folded	mm	790	1140	790	1140
	Total mass	kg	from 12.8		from 13.3	
	Mass of heaviest single component [3]	kg	from 7.5		from 8	
	Static stability downhill	°		10		10
	Static stability uphill	°		10		10
	Static stability sideways	°		10		10
	Steepest slope on which parking brakes can be used	°		10		10
	Seat plane angle	°	- 5	15	- 5	15
f	Effective seat depth (adjustable)	mm	360	450	480	570
a	Effective seat width	mm	380	560	440	560
d	Seat height front	mm	412.5	525	412.5	525
	Seat height rear	mm	387.5	525	412.5	525
g	Backrest angle	°	- 5	15	- 5	15
h	Backrest height	mm	290	500	290	500
c	Distance from foot plate to seat surface	mm	370	510	370	510
l	Angle of leg rest to seat surface	°	102	110	102	110
e	Armrest to seat distance (adjust.)	mm	220	260	220	260
	Backrest to front edge of armrest	mm	290	340	290	340
	Push rim diameter at 24"	mm	530		530	
	Horizontal position of axle	mm	- 20	+ 80	- 20	+ 80
	Minimum turning radius	mm	at least 1010 for ST 45		at least 1150 for ST 57	
	Maximum user weight [4]	kg	125			150

[1] Depending on the rear wheel position
[2] Depending on the configuration of your wheelchair, the recommended dimension of 700 mm (according to DIN EN 12183), from a seat width of 480 mm, can be exceeded
[3] Wheelchair weight minus removable parts (here without rear wheels, without side panels, without leg rests)
[4] Maximum user weight including load/The weight of the load reduces the maximum user weight.

DIMENSIONS AND MASS AS[01]RF without inset frame

	Technical specifications		Leg rest 77 ° up to 125 kg Min.	Leg rest 77 ° up to 125 kg Max.	Leg rest 77 ° up to 150 kg Min.	Leg rest 77 ° up to 150 kg Max.
k	Total length with leg rests [1]	mm	940	1000	1060	1060
b	Total width [2]	mm	560	740	560	740
i	Total height	mm	790	1140	790	1140
k	Length folded	mm	940	1000	1060	1060
	Width when folded	mm	280	300	280	300
i	Height folded	mm	790	1140	790	1140
	Total mass	kg	from 12		from 12.5	
	Mass of the heaviest part [3]	kg	from 8		from 8.5	
	Static stability downhill	°		10		10
	Static stability uphill	°		10		10
	Static stability sideways	°		10		10
	Steepest slope on which parking brakes can be used	°		10		10
	Seat plane angle	°	- 5	15	- 5	15
f	Effective seat depth (adjustable)	mm	360	450	480	510
a	Effective seat width	mm	380	560	440	560
d	Seat height front	mm	412.5	525	412.5	525
	Seat height rear	mm	387.5	525	412.5	525
g	Backrest angle	°	- 5	15	- 5	15
h	Backrest height	mm	290	500	290	500
c	Distance from foot plate to seat surface	mm	370	510	370	510
l	Angle of leg rest to seat surface	°	103		103	
e	Armrest to seat distance (adjust.)	mm	220	260	220	260
	Backrest to front edge of armrest	mm	290	340	290	340
	Push rim diameter at 24”	mm	530		530	
	Horizontal position of axle	mm	- 20	+ 80	- 20	+ 80
	Minimum turning radius	mm	at least 1010 for ST 45		at least 1060 for ST 51	
	Maximum user weight [4]	kg	125			150

[1] Depending on the rear wheel position
[2] Depending on the configuration of your wheelchair, the recommended dimension of 700 mm (according to DIN EN 12183), from a seat width of 480 mm, can be exceeded
[3] Wheelchair weight minus removable parts (here without rear wheels, without side panels, without leg rests)
[4] Maximum user weight including load/The weight of the load reduces the maximum user weight.

DIMENSIONS AND MASS AS[01]RF with inset frame (30mm each side)

	Technical specifications		Leg rest 77 ° up to 125 kg Min.	Leg rest 77 ° up to 125 kg Max.	Leg rest 77 ° up to 150 kg Min.	Leg rest 77 ° up to 150 kg Max.
k	Total length with leg rests [1]	mm	940	1000	1060	1060
b	Total width [2]	mm	560	740	560	740
i	Total height	mm	790	1140	790	1140
k	Length folded	mm	940	1000	1060	1060
	Width when folded	mm	280	300	280	300
i	Height folded	mm	790	1140	790	1140
	Total mass	kg	from 12		from 12.5	
	Mass of the heaviest part [3]	kg	from 8		from 8.5	
	Static stability downhill	°		10		10
	Static stability uphill	°		10		10
	Static stability sideways	°		10		10
	Steepest slope on which parking brakes can be used	°		10		10
	Seat plane angle	°	- 5	15	- 5	15
f	Effective seat depth (adjustable)	mm	360	450	480	510
a	Effective seat width	mm	380	560	440	560
d	Seat height front	mm	412.5	525	412.5	525
	Seat height rear	mm	387.5	525	412.5	525
g	Backrest angle	°	- 5	15	- 5	15
h	Backrest height	mm	290	500	290	500
c	Distance from foot plate to seat surface	mm	370	510	370	510
l	Angle of leg rest to seat surface	°	103		103	
e	Armrest to seat distance (adjust.)	mm	220	260	220	260
	Backrest to front edge of armrest	mm	290	340	290	340
	Push rim diameter at 24"	mm	530		530	
	Horizontal position of axle	mm	- 20	+ 80	- 20	+ 80
	Minimum turning radius	mm	at least 980 for ST 45		at least 1030 for ST 51	
	Maximum user weight [4]	kg	125			150

EN

DIMENSIONS AND MASS AS[01]RF with inset frame (30mm each side)

	Technical specifications		Leg rest 82 ° up to 125 kg Min.	Leg rest 82 ° up to 125 kg Max.	Leg rest 82 ° up to 150 kg Min.	Leg rest 82 ° up to 150 kg Max.
k	Total length with leg rests [1]	mm	910	970	1030	1030
b	Total width [2]	mm	560	740	560	740
i	Total height	mm	790	1140	790	1140
k	Length folded	mm	910	970	1030	1030
	Width when folded	mm	280	300	280	300
i	Height folded	mm	790	1140	790	1140
	Total mass	mm	from 12		from 12.5	
	Mass of the heaviest part [3]	kg	from 8		from 8.5	
	Static stability downhill	°		10		10
	Static stability uphill	°		10		10
	Static stability sideways	°		10		10
	Steepest slope on which parking brakes can be used	°		10		10
	Seat plane angle	°	- 5	15	- 5	15
f	Effective seat depth (adjustable)	mm	360	450	480	510
a	Effective seat width	mm	380	560	440	560
d	Seat height front	mm	412.5	525	412.5	525
	Seat height rear	mm	387.5	525	412.5	525
g	Backrest angle	°	- 5	15	- 5	15
h	Backrest height	mm	290	500	290	500
c	Distance from foot plate to seat surface	mm	370	510	370	510
l	Angle of leg rest to seat surface	°	98		98	
e	Armrest to seat distance (adjust.)	mm	220	260	220	260
	Backrest to front edge of armrest	mm	290	340	290	340
	Push rim diameter at 24”	mm	530		530	
	Horizontal position of axle	mm	- 20	+ 80	- 20	+ 80
	Minimum turning radius	mm	at least 960 for ST 45		at least 1010 for ST 51	
	Maximum user weight [4]	kg	125			150

[1] Depending on the rear wheel position
[2] Depending on the configuration of your wheelchair, the recommended dimension of 700 mm (according to DIN EN 12183), from a seat width of 480 mm, can be exceeded
[3] Wheelchair weight minus removable parts (here without rear wheels, without side panels, without leg rests)
[4] Maximum user weight including load/The weight of the load reduces the maximum user weight.

FURTHER INFORMATION

Technical specifications		up to 125 kg AS[01]	up to 125 kg AS[01]RF	up to 150 kg AS[01]	up to 150 kg AS[01]RF
Colours		Frame matt black, frame pearl white/petrol/atomic umbra/titanium gray/cobalt blue/black/garnet red metallic			
Seat width	mm	360 -540 (in 20 mm increments)		380 -540 (in 20 mm increments)	
Arm rests (L × W)	mm	250 Desk / 350 Long usable × 60			
Handle height	mm	860 – 980 / optional + 100 mm adjustable			
Rear wheels (diameter)	"	22 × 1" / 24 × 1" / 24 × 1 3/8" /26 × 1"			
Front wheels (diameter)	mm//"	125 × 34 / 125 × 36 / 150 × 40 / 175 150 × 40 // 5 / 6 / 7			
Leg rest mass	kg	0.63 - 0.98	N/A	0.63 - 0.98	N/A
Rear wheel mass 24"	kg	24"Smooth-running pneumatic1.9 - 3.5 24"PU TB			

Frame, backrest tubes	Aluminium, black anodised
Seat/back upholstery	Polyester
Armrests	PU foam
Cross brace	Aluminium, black painted
Screws, joints	Galvanised or EDP coated (black)
Tyres on rear/front wheels	PU plastic
Therapy tray	Acrylic glass
Heel/calf strap	Polypropylene (PP)
Leg rests	Aluminium, plastic
Foot plate	Aluminium with plastic holders
Handle	Thermoplastic rubber (TPR)
Brake lever	Polypropylene (PP)

Note: All metals used are corrosion-resistance.

Ambient operation temperature	-10°C to +50°C
Ambient storage conditions	0°C to 45°C / 20% to 75% relative humidity

The AS[01] and AS[01]RF fulfill the requirements of the international standards:

DIN EN 12183	the standards for manuel wheelchairs have been tested	
ISO 7176-8	the static load capacity, shock resistance and fatigue strength have been tested	
EN 1021-2	resistance to inflammation has been tested for Upholstery materials and plastic components	
ISO 10993-5	tested for toxicity in the material	
Test dummy weight	125 kg	150 kg
Crash test dummy	H3 50% dummy (78 kg)	

[5] The handle height depends on the selected seat/back height

EN

SAFETY INFORMATION AND DRIVING RESTRICTIONS

Depending on the configuration and setting (camber of the drive wheels, centre of gravity on very active), the driving characteristics of the AS [01] | AS [01] RF be very sporty and agile. This can be unusual or even dangerous for inexperienced wheelchair users. To avoid falls and hazardous situations, you should first practice using your new wheelchair on level, clearly laid out terrain. An attendant is very helpful in this case and therefore strongly recommended.

Please observe all safety warnings:

- Before using the wheelchair for the first time, practice moving on level, clearly laid out terrain. Intensively familiarise yourself with its braking and acceleration behaviour when moving straight ahead and on cornering. An accompanying person is recommended.
- Never leave children or adolescents in the wheelchair without supervision.
- Always lock both brakes, before you sit down or get up from the wheelchair.
- Never use the wheelchair under the influence of alcohol or other substances which influence attentiveness or physical and mental receptiveness.
- The wheelchair may not be used to transport several individuals or loads. It is only used to transport a person, sitting, on the designated seat surface.
- Please note that the risk of tipping over may be increased due to shifts in balance as a result of body movement or loading the wheelchair. Adjusting the wheelchair settings to their extremes increases the risk.
- With an incline/slope of more than 10 ° there is an increased risk of tipping backwards or forwards, DIETZ recommends using anti-tipping supports.
- Anti-tip supports must be used for wheelchair configurations that are prone to tipping even on gradients/inclines of less that 10°. They must be properly mounted.
- To pass over obstacles, please use ramps if possible or have an attendant help you.
- If they cannot be bypassed, ruts, rails or similar obstacles must always be crossed at right angles (90°).
- Do not propel your wheelchair forward against kerbs, edges or other obstacles without braking.
- Do not jump from obstacles (kerbs, edges, steps, etc.) while sitting in the wheelchair.
- Use your wheelchair only as intended. Do not drive unrestrained against obstacles (steps, edges) or jump off them.

- Observe the road traffic regulations when moving in road traffic.
- Wherever possible, wear light, eye-catching clothing. You will then be seen more easily by other road users.
- Avoid exposing the wheelchair to direct sunlight or low temperatures for a long time, since parts of the product (e.g. frame, leg supports, brakes and side parts) can become very hot (> 41 ° C) or very cold (<0 ° C) and can possibly cause skin injuries.
- Always remember that there is a risk of fingers or other parts of the body getting caught in any of the moving parts (brakes, leg rests, etc.). For this reason, operate the wheelchair with care.
- Ensure that the wheelchair is not parked in direct vicinity of emergency exits and escape routes and blocks them.
- Never exceed the max. load for driver and stowed objects as this can lead to injury or damage to the chair.
- Avoid escalators as they can cause serious injury if you fall.
- Stairs may only be climbed with the help of attendants. Are facilities such as ramps or lifts are available, so use them.
- Any severe incidents associated with the product must be reported to the manufacturer and responsible authority.
- Sand and sea water (or road salt) can damage the wheel bearings. The wheel bearings can be damaged by sand, seawater and road salt.
- If your product is custom-made device (see product labelling), the additional documentation including all safety instructions must be observed in addition to the current operating instructions.

SERVICING/MAINTENANCE

In order to ensure safe operation of the wheelchair at all times, we recommend that you carry out the checks regularly in accordance with the maintenance schedule.

Defective or neglected care and maintenance of the wheelchair limits liability. The maintenance schedule does not give any information concerning the amount of work actually required on the wheelchair.

NOTE

As the user, you will be the first to notice possible damage. If you notice a fault as described in the maintenance schedule or further defects and functional impairments, contact an authorised specialist dealer immediately.

NOTE

The inspections and measures stipulated in the maintenance schedule must be performed by the user or assistant, unless otherwise stated.

WARNING

Repairs on the wheelchair must only be performed by specialist shops using DIETZ original spare parts to maintain the operational safety of the wheelchair. The relevant service manual and spare parts catalogue can be found on our website in the information of the product in question.

NOTE FOR SPECIALIST DEALERS:

If the user indicates abnormalities on the wheelchair, check all the inspection points listed in the maintenance schedule on the wheelchair. The checks must also be performed before putting the wheelchair back into operation and after longer storage periods (> 4 months).

MAINTENANCE SCHEDULE

What	Description	monthly	Before use
Parking brakes Check for correct function	• The wheels must not turn if the parking brakes are locked.  The parking brakes must be reset after being replaced or if the position of the rear wheels has been changed. This must only be performed by the authorised specialist retailer.		x
Drum brake (optional) Check for correct function	• The braking effect must be present when the brake lever is actuated. • The wheels must be firmly blocked when the drum brake is locked. • The Bowden cable must not be damaged.  The drum brakes must be reset after being replaced or if the position of the rear wheels has been changed. This must only be performed by the authorised specialist retailer.		x
Seat and backrest upholstery Check for contamination/damage	• If contamination is found, clean the upholstery in line with the cleaning information. • If the upholstery is damaged, have it replaced.		x
Moving parts Check for correct function and wear	• Check that all moving parts (leg rests, foot plates, side panels, height-adjustable push handle) function smoothly and with little noise.		x
Screw joints Check that they are firmly seated	• All screw joints must be firmly tightened.  Self-locking nuts and screws loose their efficacy through being repeatedly released and tightened. Therefore, they must be replaced by an authorised specialist dealer.		x
Wheels Check for correct function and damage	• The wheels must run straight and not wobble. • The wheels must move easily and with little noise when travelling. • The wheels must be replaced if damaged.		x
Tyres (PU) Check for correct function and damage	• Damaged or worn tyres must be replaced.		x

What	Description	Monthly	Before use
Pneumatic tyres (optional) check for correct function and damage	• Check the tyre pressure • Pump the tyres up to the required pressure (see information printed on the side of the tyre). • Damaged or worn tyres must be replaced.  In case of air loss, the wheelchair can no longer be used as safe driving is not ensured.	x	
Push handle Check for correct function and wear	• The handles must be firmly attached. • Both handles should be at the same height and have no external damage/bending. • It must be possible to lock the fixing screw firmly (for optional height-adjustable push handles).		x
Side panel, complete check for correct function and damage	• The side panel must swivel and lock properly. • Defects and surface defects must be remedied.		x
Leg rest/foot rest check for correct function and damage	• It must be possible to remove, attach and lock the leg rests without fault. • Defects and surface defects must be remedied.		x
Push rims Check for damage and wear	• The push rims must be firmly screwed to the wheels.  Danger of injury! Surface damage to the push rims must be remedied immediately.		x
Folding mechanism Check for smooth movement	• The wheelchair must fold up soundlessly.		x
Wheels Check the wheels for correct function, damage and correct seating	• The spokes must not be loose, warped or broken. • Remove dirt and deposits from the quick-release axles and wheel hubs. • The wheel must not come free if the rear wheel is pulled to the side.		x
Visual inspection, check for loose parts, breaks, corrosion or other damage	 If damage of this type is found, the wheelchair must no longer be used as safe driving is not ensured.		x
Cleaning Check for contamination	• Depending on the degree of soiling, but at least once a month, the entire wheelchair must be cleaned (see Chapter Cleaning).		x

TROUBLESHOOTING

What	Possible causes	Measures
The rear wheels do not run straight	• The spokes are loose, warped or broken.	Visit an authorised specialist dealer
The wheelchair does not move in a straight line	• The wheels have different tyre pressures (only if optional pneumatic tyres have been selected).	Correct the tyre pressure
	• The wheel axles are dirty.	Remove the dirt
	• The wheels are adjusted differently. • The wheels are worn or damaged. • The bearings of the front wheel fork cannot turn freely. • The wheel bearings of the front wheels are dirty or damaged.	Visit an authorised specialist dealer
The wheelchair is difficult to push	• The wheel axles are dirty.	Remove the dirt.
	• The tyre pressure of the wheels is too low • (only if optional pneumatic tyres have been selected).	Correct the tyre pressure
	• The brakes are set incorrectly.	Visit an authorised specialist dealer
The front wheels are stiff or jam	• The bearings are dirty or defective.	Visit an authorised specialist dealer
Brake function is insufficient and uneven	• The tyre pressure of the wheels is too low (only if optional pneumatic tyres have been selected).	Correct the tyre pressure
	• The brakes are set incorrectly.	Visit an authorised specialist dealer
Squeaking or grinding noises	• Various causes	Visit an authorised specialist dealer

CLEANING

The wheelchair's frame parts can be wiped down with a damp cloth. A mild cleaning agent can be used in the case of more severe soiling.

The wheels can be cleaned using a damp brush with soft plastic bristles (do not use a wire brush!).

The upholstery materials can be washed by hand using mild soapy water at 40°C.

After cleaning, ensure that all materials are fully dry in order to preserve their quality.

WARNING

Do not use high-pressure devices, no harsh, caustic chemicals and no abrasive additives for cleaning.

DISINFECTION

When manually reconditioning a used aid for reuse, all of the aid's components must be thoroughly treated/wiped with a disinfectant. Take particular care to disinfect surfaces that come into frequent contact with hands/skin, such as handles and armrests. Please only use the following disinfectants; use of other chemicals might damage the wheelchair.

- Aldehyde-free disinfectants based on alcohol (max. 70% propylalcohol)
- Aldehyde-based disinfectant

WARNING

Sewn textile parts can not always be cleaned with satisfactory hygienic results. In this case we recommend to replace these parts.

WARNING

When disinfecting, pay attention to the usage and processing instructions of the manufacturer of the disinfectant.

FORWARDING/REUSING

Your product is suitable for forwarding/re-use, unless it is a custom-made product and marked accordingly. The number of times it can be reused depends on the material wear conditions and the functional capabilities of the respective product.

When loaning the wheelchair or re-using it, please remember to hand over all the technical documents necessary for safe handling.

The wheelchair must be cleaned and disinfected, and must be checked for damage and approved by the specialist retailer. To do this, all test points listed in the maintenance plan must be checked on the wheelchair.

STORAGE

If you want to store the wheelchair, make sure that the wheelchair is stored dry, protected from strong sunlight, at a temperature of 0 °C to +45 °C and at a relative humidity of 20 - 75%. Do not activated the parking brakes. Secure the wheelchair against rolling away unintentionally. After longer periods of storage (> 4 months), please check all the inspection points on the wheelchair listed in the maintenance schedule before reusing/redeploying the chair.

WARNING

Do not store the wheelchair near a heat source and do not place any objects on the wheelchair during storage.

DISPOSAL/RECYCLING

If you no longer need the wheelchair, please contact your specialist dealer. They will then pick up the wheelchair and either dispose of it properly or make further use of it. Otherwise, please take the wheelchair to your local waste disposal facility.

PRODUCT LABELLING

Stickers must remain legible and not be removed. Immediately replace illegible or missing stickers. The nameplate is very important for the identification of the product. It must not be removed.

- Labelling for custom-made items

SONDERANFERTIGUNG
CUSTOM-MADE DEVICE

Fig. 66

Custom models are products which are customised for a particular user. The type plate, warnings, and where applicable the intended use differ in this case. Please pay attention to the additional documentation!

- Type plate

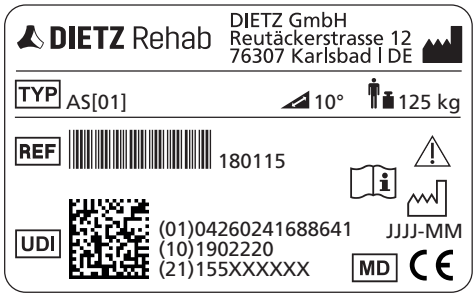


Fig. 67

Fig. 68

	Crash-tested according to ISO 7176-19/marks the attachment points for the restraint system
	Approved according to ISO 7176-19 for the transport of people in the vehicle!
	Not crash tested
TYP	TYPE/Model
REF	Item number
SN	Serial number
UDI	Unique Device Identifier (01) UDI-DI/GTIN (10) Order number (21) Serial number
	Manufacturer
	Maximum user weight incl. payload/add-ons
	Date of manufacture YYYY-MM
	Maximum safe gradient that can be driven on with the wheelchair [1]
	Follow the user manual
	Caution: Always observe the safety instructions in the operating instructions!
MD	Medical Device
CE	CE marking

[1] Depends on the wheelchair setting and the physical abilities of the user

WARRANTY

Warranty services refer to all product defects which are verifiably attributable to material or manufacturing flaws. The warranty period is 24 months as of receipt of notification of readiness for shipping, but following delivery at the latest. Damage which has occurred due to natural wear, intent, and negligent or improper operation or usage is excluded from the warranty obligation. This also applies to the use of unsuitable care products, lubricating oils or greases.

LIFETIME

The expected product service life is five years when used daily and if used as intended. This assumes compliance with the maintenance and safety specifications stipulated in this manual.

The indicated life span does not constitute additional guarantee.

LIABILITY

DIETZ GmbH only bears liability if the products are used under the specified conditions and for the specified purposes. We recommend that the products be handled appropriately and cared for according to the instructions. DIETZ GmbH accepts no liability for damage caused by components and replacement parts which have not been approved by DIETZ GmbH. Repairs must only be carried out by authorised specialist retailers or by the manufacturer itself.

DIETZ Rehab

CE

Product group: Manual wheelchairs
Product: Adaptive wheelchair AS[01 | AS[01]RF

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