

# Bischoff & Bischoff

Instruction manual

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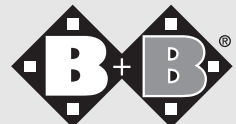
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## Triton



Enjoy mobility.



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## 1. Preface

Dear user,

You have selected a high-quality wheelchair from Bischoff & Bischoff. Thank you for your trust in our products.

The wheelchair has been designed to give you many advantages and to meet your needs. The wide range of adjustments for seat depth, seat back height, knee angle, seat width, seat-back angle, seat angle and lower-leg length make it easy to adjust the Triton to the user's individual body size.

The Triton is designed for use inside and outside.

Please read and follow the instruction manual carefully before using your new wheelchair for the first time. The manual is an integral and important component of the wheelchair. Keep the instruction manual at hand and include with the wheelchair when you transfer it to another owner.

Repairs and adjustments require specialised technical training and must be carried out by Bischoff & Bischoff authorised dealers only.

### 1.1. Signs and symbols

You have selected a high-quality wheelchair from Bischoff & Bischoff. Thank you for your trust in our products.



Caution! Indicates specially safety-relevant instructions. Follow instruction manual.



Important! Indicates particularly useful information in the specific context.

## **2. Important safety instructions**

### **2.1. General safety instructions**

Before using the wheelchair check that all attached components are correctly fastened. Practise using your new wheelchair on a small, flat area first to prevent falls and hazardous situations.

We recommend having an assistant with you at this time. The wheelchair must not be used to transport more than one person or loads.

Note the intended use. Never operate the wheelchair under the influence of alcohol or other substances that could detract from your alertness or physical and intellectual acuity.

Please note that changes in the balance of the wheelchair by body movements or the load may increase the risk of tipping. Please note that padding that is exposed to direct sunlight may become hot and burn your skin if it comes into contact with it. Cover these parts or protect the wheelchair from direct sunlight.

We recommend using leather gloves when using the wheelchair outdoors. This improves the grip and protects your hands and fingers from dirt and injury.

### **2.2. Brakes**

#### **Parking brake**

The brakes that actuate directly on the tyres of the wheels are to be used as parking brakes only, i.e. they must only be actuated when the wheelchair is at a standstill and must never be used to reduce the speed of the wheelchair.

When using the hand rims for slowing down from speed or descending long slopes, your fingers and hands will quickly become hot. Be careful of burns!

#### **Drum brake (optional)**

The drum brake is designed exclusively for operation by an assistant pushing the wheelchair. The drum brake can be used as a parking brake and also for slowing down the wheelchair gently.

### **2.3. Anti-tilt wheels**

The anti-tilt wheels prevent the wheelchair from tipping backwards. Please note that for using the wheelchair the anti-tilt wheels are of only limited use on rough areas, hoists and ramps. Make sure that the clearance to the sides, above and below is sufficient.

### **2.4. Tyres**

Make sure that the tyres have sufficient tread (>1 mm) at all times. If the tread is too worn down, safe use of the wheelchair cannot be guaranteed.

## 2.5. Obstacles

Always use ramps to negotiate obstacles (e.g. kerbs, steps etc.). Do not travel into an obstacle (step) without braking or jump down from steps.

## 2.6. Ascents and descents

Please note that if the seat back is adjusted to an extreme tilt, your wheelchair may tip backwards on even a moderate slope. Negotiate inclines and slopes only with an assistant with these adjustments. Use the anti-tilt wheels to help prevent the wheelchair from tipping backwards.

## 2.7. Safety in vehicles

Please note that wheelchairs must not be used as seating in any vehicles. The user must transfer from the wheelchair to a standard vehicle seat.

## 2.8. Using public footpaths and roads

The wheelchair is designed for use indoors and outdoors. Always follow the traffic regulations on public streets.  
English

## 2.9. Purpose

The wheelchair is designed exclusively to improve mobility and to transport handicapped persons for whom its use is indicated based on one of the specified indications. The maximum load capacity is 125 kg.

## 2.10. Indications

Walking disability or serious difficulty in walking as a result of

- paralysis
- loss of limb
- defect or deformity in limbs
- joint contractures or joint damage (not on both arms)
- other conditions

The use of a back rest adjustment greater than 30° and foot rests that can be lifted to a horizontal position is indicated if a near-horizontal position is required intermittently, e.g. because of orthostatic collapse conditions.

## 2.11. Contraindications

The wheelchair is unsuitable for use with

- sensory disorders
- severe equilibrium disorders
- loss of limb on both arms
- joint contractures or joint damage on both arms
- inability to sit
- reduced or inadequate vision

## **2.12. Responsibility**

We can only accept a warranty claim if the product is used under the specified conditions and for the specified purposes, if modifications, extensions, repairs and maintenance work are carried out only by persons authorised by us and if the wheelchair is used in accordance with all instructions for use.

## **2.13. Declaration of Conformity**

Bischoff & Bischoff as manufacturer declare in sole responsibility that the Triton wheelchair complies with the requirements of Directive 93/42/EEC.

## **3. Overview of product and accessories**

### **3.1. Checking the delivery**

The Triton wheelchair is supplied fully assembled in a carton. After unpacking the wheelchair, keep the carton if at all possible. It can be used for subsequent storage or return of the wheelchair.

The wheelchair is supplied and adjusted by a qualified and authorised dealer in medical products, which also provides instruction in its use.

If the wheelchair is delivered by rail or road transport it must be inspected for shipping damage in the presence of the delivery person. If any damage is detected, contact our customer service department immediately (Tel.: + 49 (0)700/6000 7070).

Check the contents of the package for completeness and damage. If irregularities and damage are found please contact our customer service department immediately (Tel.: + 49 (0)700/6000 7070).

### 3.2. Package

The package contains the following main components:

- wheelchair, preassembled
- 1 pair of leg rests (adjustable angle)
- 1 head rest
- 1 pair of side sections with arm rests
- 1 pair of shoulder pads
- 1 pair of lower leg and nee pads
- 1 tool kit

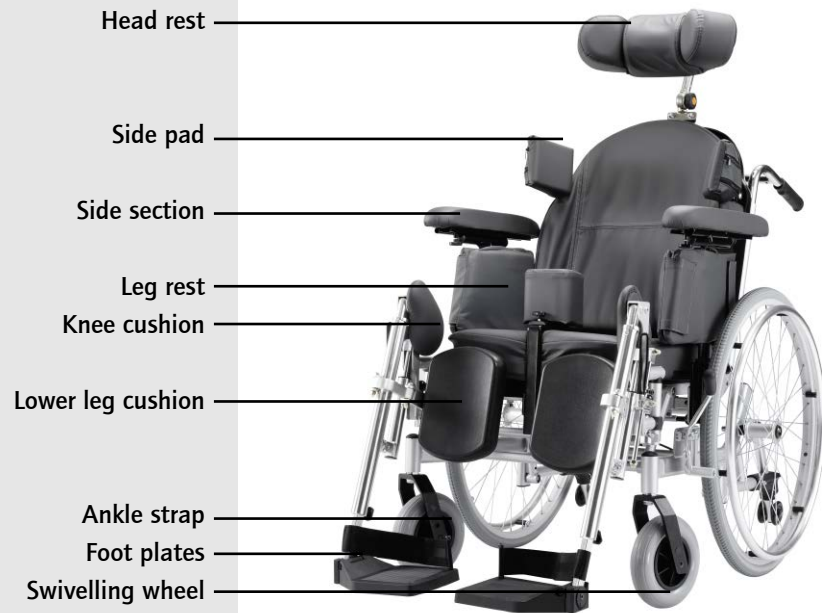


Fig. 1

### 4. Using the wheelchair

#### 4.1. Setting up the wheelchair

After unpacking the wheelchair it must be made ready for use.

- Lift the seat back to the upright position.
- Lock the seat back to the gas cylinder for adjusting the seat back angle.
- Attach the drive wheels with the stub axle.
- The parking brakes on the right and left drive wheels.
- Position the seat and seat back cushions.
- Attach the leg rests and fold the foot plates up.
- Now you can sit down.

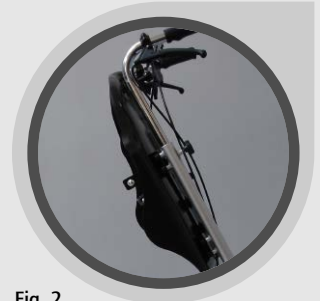


Fig. 2



Fig. 3

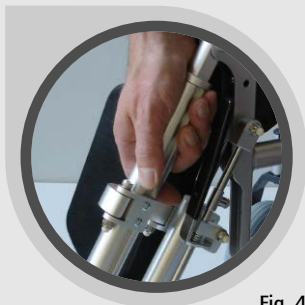


Fig. 4

## 4.2. Transporting the wheelchair

To prepare the wheelchair for transport in a car proceed as follows.

- Remove the leg rests.
- Release the seat back attachment to the gas cylinder.
- Fold the seat back forward.
- Release the parking brakes on the right and left drive wheels.
- Now the wheels can be easily removed from the stub axles.

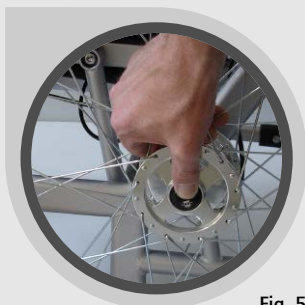


Fig. 5



**DO NOT JAM FINGERS!**

Make sure that you do not jam your fingers when folding the seat back down.

## 4.3. Entering and leaving from the side

- Move the wheelchair as close as possible to the present or future seat side by side.
- If you wish to move from another wheelchair or room chair, lock it by setting the parking brakes.
- Lock the Triton to prevent it from moving accidentally by setting the brake levers on the right and left sides.
- Remove the side section with the arm cushion.
- Fold the foot plates to the side or remove the leg rests completely.
- Now slide sideways onto the other seat.
- Make sure that you are sitting as far back in the seat as possible.
- Then move the arm rest and leg rests to the original position.



## 4.4. Entering and leaving from the front

- First fold the foot plates up or remove the leg rests completely.
- Move the Triton as close as possible to the present or future seat until they are front to front.
- If you wish to move from another wheelchair or room chair, lock it by setting the parking brakes.
- Now slide onto the seat by turning your body around.
- Then move the arm rest and leg rests to the original position.



Never stand on the foot plates.  
danger of tipping!

## 4.5. Negotiating steps or high kerbs



Two assistants are required for high steps or staircases with more than three steps.

- The assistant must hold fixed frame parts only (Fig. 8 and 9).
- When negotiating a step the assistant at the back pulls the wheelchair over it by pulling the fixed handles.
- The bottom assistant holds the front frame tube and stabilises the wheelchair. The back wheels of the wheelchair are pushed down onto the steps.

- When going down the bottom assistant brakes the wheelchair by pressing it down onto the steps. The top assistant holds the wheelchair by the handles to secure it and keep it in the correct position. The wheelchair should roll down the steps one by one.



When transporting the wheelchair hold it by the frame and the handles only. Never use the arm rests to lift the wheelchair.

## 4.6. Foot plates

- The lower leg length can be adjusted over a range of five positions by 22.5 cm each.
- Loosen the plastic screw.
- Set the required height.
- Tighten the plastic screw again.
- Fold the foot plates to the side for entering and leaving the wheelchair.
- The angle of the foot plate can be adjusted along the teeth by loosening the Allen screw (5 mm).



Caution! the marking makes it easier to position the fastening hole.



Fig. 6



Fig. 7



Fig. 8



Fig. 9



Fig. 10

## 4.7. Leg rests

To make it as easy as possible to enter and leave your wheelchair, the foot plates can be folded up or the leg rests can be swung to the side out of the way or removed.

- Open the lock to swing the leg rest to the side.
- The leg rest in the swung-out position can be completely removed.
- To replace the leg rest, proceed in reverse order.
- Move the leg rest to the forward position until you hear it lock into place.
- The leg rests can be independently adjusted up to a horizontal position.
- Move the leg rest to the desired position.
- The leg rest automatically remains in the selected position.
- Use the lever to lower the leg rest again (Fig. 12).
- The lower leg pad can be moved up and down the leg rest.
- Loosen the screws (4 mm) and position the lower leg pads at the desired height.
- Tighten the screws again.



Fig. 11



Fig. 12



Fig. 13

## 4.8. Side sections and arm rests

- The height of the side sections with the arm rests is adjustable.
- Push the locking button and adjust the desired height.
- The side sections can be removed entirely for ease of entering and leaving the wheelchair.
- The arm rest can also be adjusted horizontally.
- Unscrew the plastic screw under the arm rest.
- Move the arm rest to the desired position and tighten the screw again.



Do not use the side sections to lift the wheelchair.

## 4.9. Seat width

- The seat width in both versions can be adjusted over a range of 12 cm to fit the requirements of the user.
- It must be adjusted evenly on the right and left.
- The leg rests and side sections must be moved to adjust the seat width.
- Tip the wheelchair onto the handles.
- Loosen the Allen screws (6 mm).
- Set the desired seat width and then tighten the Allen screws.



Fig. 14



Fig. 15

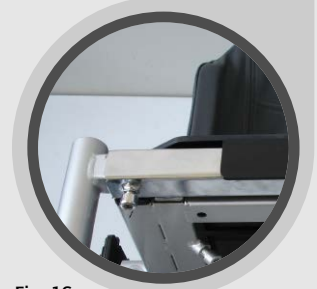


Fig. 16



Fig. 17

### 4.10. Seat depth

- The seat depth in both versions can be adjusted over a range of 12 cm.
- Remove the seat cushion.
- Loosen the Allen screws (6 mm) underneath on the frame.
- Set the desired seat depth and then tighten the Allen screws.
- Replace the seat cushion.

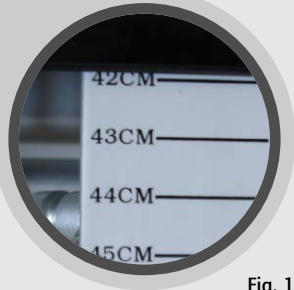


Fig. 18

### 4.11. Seat back height

- The seat back height in both versions can be adjusted over a range of 16 cm.
- Remove the seat back cushion.
- Loosen the plastic screws on the back.
- Set the desired seat back height and then tighten the plastic screws.
- Replace the seat back cushion.



Fig. 19



Position the hook and loop belt one on top of the other.

### 4.12. Seat angle

- The seat angle of the Triton can be infinitely adjusted from 0° to 15°.
- The angle between the seat back and seat remains unchanged.
- There is a release lever on the handle for adjusting the seat angle.
- The gas cylinder assists with the adjustment of the seat angle.
- Let the release lever go and the position of the seat angle remains unchanged.

### 4.13. Seat back angle

- The seat back angle of the Triton can be infinitely adjusted forward from 3° to as far back as 43°.
- The angle between the seat back and floor remains unchanged.
- There is a release lever on the handle for adjusting the seat back angle.
- The gas cylinder assists with the adjustment of the seat back angle.
- Let the release lever go and the position of the seat back angle remains unchanged.



Fig. 20



Fig. 21



Fig. 22

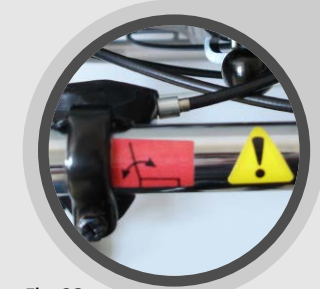


Fig. 23



Fig. 24



Fig. 25

#### 4.14. Parking brake

The Triton is fitted with a tyre brake that can be operated by the user. This must be used as a parking brake only. It is not suitable for use as a brake for stopping or slowing the wheelchair! This is done with the hand rims by the exercise of light pressure with the flat of the hands. Once the wheelchair has been brought to a standstill by this method, set the two wheel brakes by pushing the brake lever forward. The wheelchair is now safely braked.

- The distance between the surface of the tyre and the brake pin must be 16 mm with the brake open at the closest wheel position X.
- To adjust the distance loosen the two screws on the brake holder.
- Then move the braking system along the holder to the correct position.
- The brake pad must be horizontal, i.e. parallel to the floor.
- Tighten the Allen screws again.
- Make sure that the brake locks completely when the lever is set and does not snap back.



To ensure that the brake operates correctly the tyre pressure must be 300 - 400 kPa (3-4 bar). The brake will not operate efficiently if the tyre pressure is not correct.

#### 4.15. Handle

- The handle of the Triton can be infinitely adjusted in height over a range of 17 cm.
- Loosen the plastic screws on the back of the frame.
- Set the handle to the desired height and tighten the plastic screws.
- The release lever for adjusting the seat and seat back angle is on the bar between the handles.

#### 4.16. Side shoulder pads

- The height, width and angle of the side pads of the Triton can be adjusted.
- Loosen the plastic screws on the back of the frame.
- Position the side pad at the desired height and chest width.
- Tighten the plastic screws again.
- Pull the side pad up.
- Position the side pad at the desired angle to the chest.
- Release the side pad and it will lock automatically.



Fig. 26



Fig. 27



Fig. 28



Fig. 29

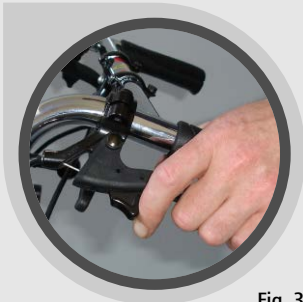


Fig. 30

### 4.17. Drum brake (optional)

The Triton can optionally be fitted with a drum brake, which can only be operated by an assistant with the brake levers mounted on the handles.

The drum brake can be used as a parking brake and as a service brake. As a service brake it can be used to slow the wheelchair gradually. The locking function is used for parking the wheelchair.

- To set the brake just pull the brake lever and press the locking lever upwards.
- To release the parking brake, just pull the brake lever briefly (the lock is released automatically).

The braking force is adjusted with the adjusting screw for optimum braking performance. The braking force is increased by screwing the adjusting screw out and reduced by screwing it in.

- Unscrew the adjustment screw until you can hear friction noise when the wheel rotates.
- Screw in the adjustment screw until you can no longer hear the noise. The wheel will rotate freely.
- After the adjustment the adjusting screw is locked by tightening the lock nut.



Fig. 31

### 4.18. Anti-tilt wheels



Always use the anti-tilt mechanism in pairs.

- The anti-tilt wheels prevent the wheelchair from tipping backwards. The wheels of the anti-tilt mechanism must be approx. 3-5 cm from the ground.
- The anti-tilt wheels are particularly recommended for novice wheelchair users or those with amputated legs.
- The anti-tilt wheels are attached to the left and right of the frame as a pair.
- The anti-tilt wheels can also be adjusted in height.
- Pull the disc back (Fig. 31) and move the wheel to the desired height.
- Then release the disc.
- The wheel is now locked into the closest possible position.

### 4.19. Tilting aid

- The tilt mechanism makes it easier for the assistant to tilt the wheelchair, for example to negotiate a step.
- Press the lever down with the foot.
- Maintain the equilibrium with the handles.
- The anti-tilt mechanism includes integrated tilt mechanism.



Fig. 32

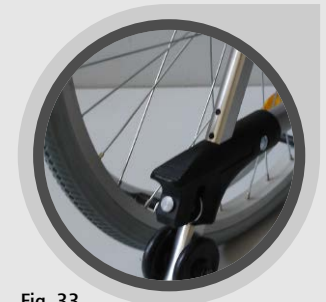


Fig. 33

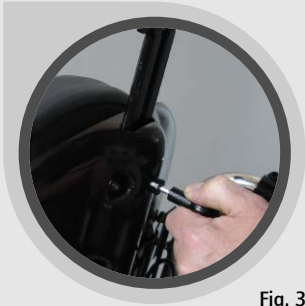


Fig. 34

#### 4.20. Head rest

- The Triton can be fitted with a head rest, which can be adjusted in angle, height and depth.
- Pull the lock on the back out.
- Position the head rest at the desired height and release the lock.
- The guide is now locked into the closest possible position.

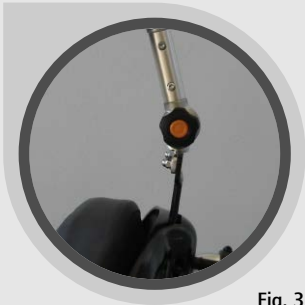


Fig. 35

- Loosen the fasteners.
- Position the head rest at the desired depth.
- Tighten the fasteners again.



Fig. 36

- Loosen the fasteners.
- Position the head rest at the desired angle.
- Tighten the fasteners again.

#### 4.21. Therapy table

- The Triton can be fitted with a therapy tray.
- Loosen the T-screws on the therapy tray.
- Set the fastening rails to the maximum width.
- Place the therapy tray on the arm rest and push the retainers on the right and left to the arm support.
- Fasten the therapy tray in position by tightening the T-screws.
- The height of the therapy tray can be adjusted. See height adjustment of the side sections.
- The tray is horizontally adjusted in the same way as the procedure for moving the arm rest.



Fig. 37



Fig. 38



Fig. 39

## 4.22. Lap belt (optional)

A lap belt is an optional extra for securing users who are cannot otherwise be securely held in the wheelchair

- The Triton can be fitted with a safety belt attached to the back frame member.
- The belt is opened and closed with the locking strap.
- The length of the belt can be adjusted by moving the adjustable belt tab along the belt.

## 5. Technical data

### Dimensions and weights

|                               |                                   |
|-------------------------------|-----------------------------------|
| Max. load capacity (kg):      | 125                               |
| Seat width (cm):              | 34 to 46 / 39 to 51 (Variant II)  |
| Seat depth (cm):              | 42 - 48                           |
| Seat height (cm):             | 52                                |
| Seat angle (°):               | 0 to 15 (infinitely adjustable)   |
| Overall width (cm):           | 68 / 73 (Variant II)              |
| Overall length (cm):          | 104 / 84 (with/without leg rests) |
| Total height (cm):            | 90 to 120                         |
| Seat back height (cm):        | 50 to 62                          |
| Lower leg length (cm):        | 40 to 49 (5x)                     |
| Seat back angle (°):          | -3 to 43 (infinitely adjustable)  |
| Foot rest angle (°):          | 0 to 25 (5x)                      |
| Knee angle (°):               | 90 to 180 (infinitely adjustable) |
| Height of arm rest (cm):      | 22 to 28 (5x)                     |
| Length of arm rest (cm):      | 42 (7.5 cm adjustment range)      |
| Unloaded weight (kg):         | 36.4 / 37.5 (Variant II)          |
| Frame weight (kg):            | 19.5                              |
| Dimensions folded (L/W/H) cm: | 84 / 73 / 65                      |
| Turning circle (cm):          | 240                               |

### Tyres

|                         |                             |
|-------------------------|-----------------------------|
| Drive wheels (in):      | 24 x 13/8" (puncture-proof) |
| Swivelling wheels (cm): | 7" (puncture-proof)         |

## 6. Care instructions for the user

### 6.1. Cleaning

- The frame sections of the wheelchair can be wiped with a damp cloth. Use a mild cleaning agent for stubborn dirt.
- The wheels can be cleaned with a damp brush with plastic bristles (do not use a wire brush).
- The seat, back, sides, and arm rests can be washed. Use a mild detergent. For disinfection add a standard disinfectant detergent to the water that will eliminate bacteria and germs reliably.



Do not use high pressure cleaners or steam cleaners.

### 6.2. Inspection of the wheelchair by the user

Every time you use the wheelchair check

- The tyres for damage. Check the tyre tread depth at least once a month. It should be at least 1 mm. Defective or worn tyres must be replaced by the dealer.
- The operation of the parking brakes. It should not be possible to move the wheelchair with the brake set. When the brake is released, the wheelchair should be easy to move in a straight line without friction noises. If you detect unusual brake behaviour, inform your dealer immediately and do not use the wheelchair.
- Check that the seat and back rest covers are undamaged and clean. If they are dirty, clean them as directed in the cleaning instructions. If you find any damage, contact your dealer.
- Check that the folding mechanism and all moving parts move freely without excessive noise. Squeaks indicated damage and should be checked by the dealer.
- Check that all screws and rivets are undamaged.



## 7. Repair and maintenance instructions

We recommend having the Triton inspected by the dealer at least once a year. If faults or defects in the wheelchair are found, it must be returned to the medical supply dealer or specialist dealer for repair immediately. To find a dealer in your area please contact our customer service department at tel. + 49 (0)700/6000 7070.



The dealer can receive the required information, documentation and circuit diagrams for repair and service on request. Our customer service can provide a service schedule for the wheelchair.

## 8. Disposal



If your Triton is no longer used and you wish to dispose of it, please contact your dealer. If you wish to dispose of it yourself, please contact a local recycling company for the disposal regulations of your jurisdiction.

## 9. Transfer of the wheelchair



When the wheelchair is transferred to a new owner, please include all the technical documentation with it for the new user. The wheelchair must be inspected in accordance with the service schedule and must be in good condition.

## 10. Maintenance

Our customer service can provide a service schedule for the wheelchair.

## 11. Warranty

Warranty claims can be made for all defects of the product that can be confirmed as due to material or manufacturing faults. If you make a claim under the warranty, please submit the completed warranty certificate. Our manually operated Triton wheelchair is supplied with a warranty of five years for the frame. All other components are guaranteed for two years.



Warranty claims and product liability claims will not be accepted if the instruction manual is not followed and incorrectly carried out maintenance work and also technical modifications and additions (attachments) are made without approval by Bischoff & Bischoff.

B+B customer service is available to answer questions at + 49 (0)700/6000 7070.

### Warranty certificate

(Please note our general business terms and conditions)

Model name: Triton

Model number:

Serial number:\*

(to be entered by dealer)

Dealer:

Date and stamp

\* See the side frame for information stickers