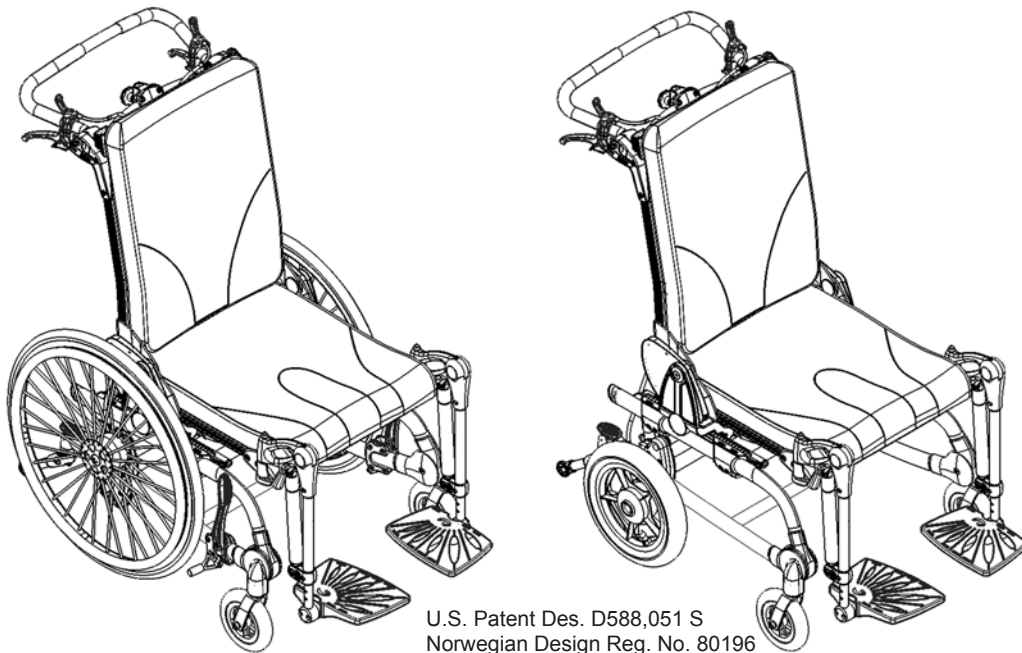


cougar<sup>™</sup>

**English user manual**

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U.S. Patent Des. D588,051 S  
Norwegian Design Reg. No. 80196  
Pat. Pend.

## **GB** COUGAR

The Cougar is an exceptionally comfortable wheelchair.

The Cougar is designed for teenagers and adults who need a comfortable rehabilitation chair. The Cougar should allow any individual the ability to achieve correct seating position and comfort. With a wide range of seating adjustments and accessories, the Cougar will provide the user with exceptional postural support and comfort.


This user manual is a guide to assist in gaining the full benefits of the options offered by the Cougar. Therefore, we recommend you read this manual before using the Cougar.





## **GB** SAFETY


The Cougar has earned the CE-mark. This certifies that it meets all relevant European safety requirements. Further the Cougar is approved according to ISO 7176-19, EN 12182 and EN 12183. This manual is approved according to ISO 7176-15.

The durability of this product is 5 years when it is used on a daily basis. Hereafter the product must be renovated (by R82 personnel) to extend the lifetime.

 Remove the CE-mark, when rebuilding the product or when using other than original R82 spare parts and fittings.

 The Cougar is constructed for one user only. Do not place more than one user in the Cougar.

 Never leave your child unattended in this product. Ensure constant supervision by an adult. Incorrect use of the product, may cause serious injury to the user. Ensure that the belt is securely fixed to the frame product every use.

 The latest version of the manual is always available online: [www.R82.com](http://www.R82.com)

## **GB** WARRANTY

R82 offers a 2-year warranty against defects in workmanship and materials and a 5-year warranty on breakage of the metal frame caused by defects in welds. The warranty would be adversely affected if the customer's responsibility of servicing and/or daily maintenance is not carried out according to the guidelines and intervals prescribed by the supplier and/or stated in the manual. For further information, we refer to the R82 homepage/download. The warranty can only be sustained if the R82 product is in use in the same country where it was purchased and if the product can be identified by the serial number. The warranty does not cover accidental damage, including damage caused by misuse or neglect. The warranty does not extend to non-durable parts, which are subject to normal wear and tear and need periodic replacement. The warranty is null and void if non-original R82 parts/accessories are used, or if the product is repaired or altered by anyone other than an authorised R82 representative or by trained personnel officially recognised by R82 for repair and maintenance of R82 products. R82 reserves the right to inspect the product being claimed for and the relevant documentation before agreeing to the warranty claim, and to decide upon whether to replace or repair the defective product. It is the customer's responsibility to return the item being claimed for under warranty to the address of purchase. The warranty is given by R82 or, subsequently, an R82 dealer.

## **GB** TOOLS

There is a tool bag at the back of the chair with 3, 4, 5 and 6 mm Allen keys. Also is included 1 pcs. of T-tool. Use these tools for the adjustments described in the manual.

## GB READY FOR USE

The Cougar is shipped folded so that it takes up as little room as possible during transport.

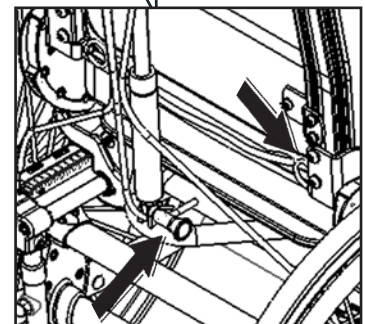
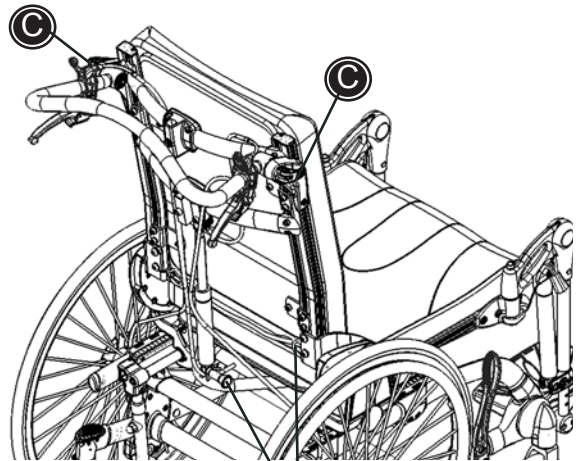
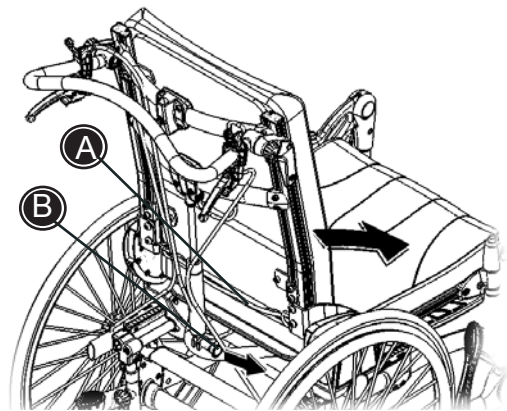
To use the Cougar, please follow the instructions below.

- 1) Pull the seat all the way back to obtain the correct starting point.
- 2) Pull the strap (A) on the back of the chair to tilt the back into vertical position.
- 3) Then mount the gas spring. Pull the handle (B) mount the gas spring and let go of the handle. Make sure it clicks into place.
- 4) Turn and fasten the push brace in the desired position. (C).

Now your Cougar is ready for use.



Make sure that the locking mechanism at the end of the straps, and the handle (B) for the gas spring click into place when tilting the back.

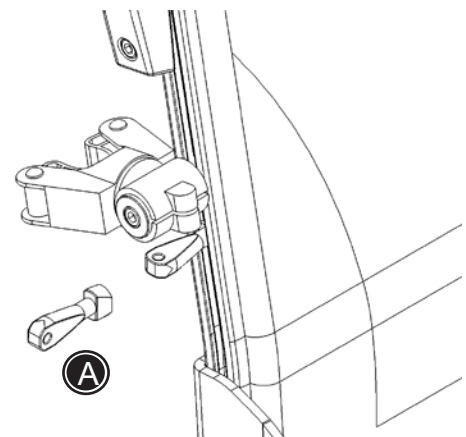


GB

## GB T-TOOL

The T-tool (A) helps to maintain the square plates in the slot, when mounting or adjusting eg. side support etc.

Insert tool into slot, twist 90° and tip down to support the plate.



## **GB** SITTING AND TRANSFERRING FROM THE COUGAR

Before placing the user into the Cougar the wheel locks must be locked in place and the footplates lifted to the sides or the leg rests removed.

Place the user into the Cougar and adjust the accessories to achieve the optimal seating for the user.

It is not necessary to remove the leg rests if the user is transferred in or out of the Cougar using a sling.

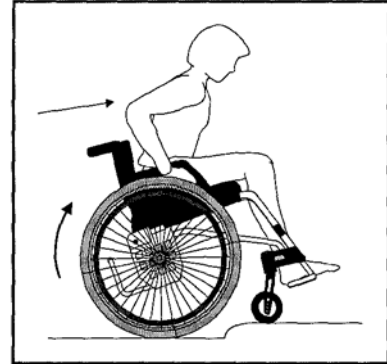
## **GB** ROADABILITY 1/4

### Driving UP kerbs (max. 10 cm)

#### **Forwards**

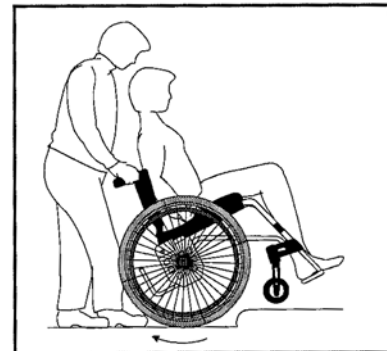
This technique is recommended for the experienced users.

- \* Make sure the anti-tip device is deactivated
- \* Drive forward towards the kerb
- \* Balance on the rear wheels and lift the front wheels from the ground. Bend forward and pull hard on the hand rims.



#### **Forwards, with assistance**

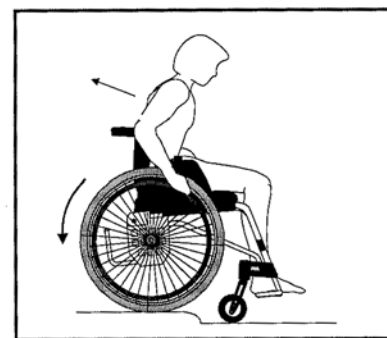
- \* Make sure the anti-tip device is deactivated
- \* Drive forward towards the kerb
- \* Tilt the chair backwards to lift the front wheels above the kerb.
- \* Lift on the handles to drive the rear wheels above the kerb.



#### **Backwards**

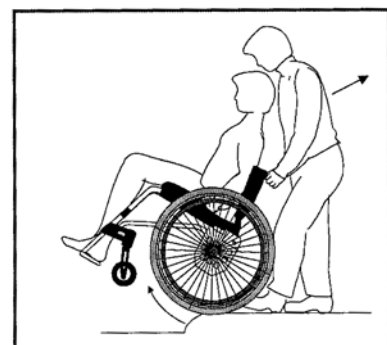
This technique is only to be used at low edges and is depended on the height of the footplate.

- \* Make sure the anti-tip device is deactivated
- \* Drive backwards towards the kerb
- \* Bend forward and pull hard on the hand rims.

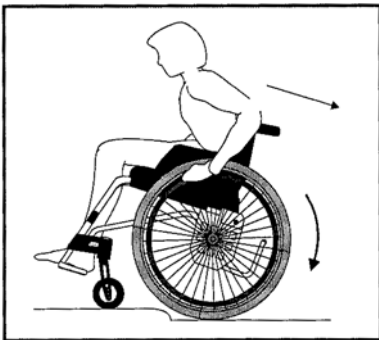
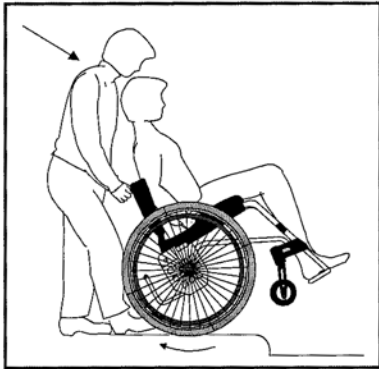
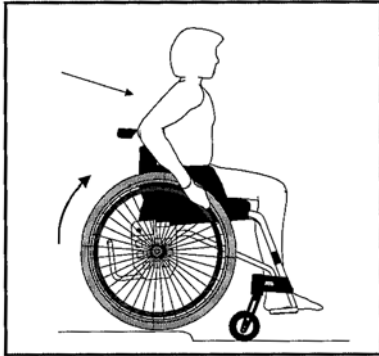


#### **Backwards, with assistance**

- \* Make sure the anti-tip device is deactivated
- \* Drive backwards towards the kerb.
- \* Tilt the chair backwards to lift the front wheels.
- \* Lift on the handles to pull the chair up. Pull the chair away from the kerb and put down the front wheels.







## **GB** ROADABILITY 2/4

### Driving DOWN kerbs (max. 10 cm)

#### **Forwards**

This technique is recommended for the experienced users.

- \* Make sure the anti-tip device is deactivated
- \* Drive forward towards the kerb
- \* Pull hard on the hand rims and drive forward. All wheels will touch the ground at the same time.

#### **Forwards, with assistance**

- \* Make sure the anti-tip device is deactivated
- \* Drive forward towards the kerb.
- \* Tilt the chair backwards to lift the front wheels.
- \* Drive carefully down the kerb and put down the front wheels.

#### **Backwards**

This technique must never be used if the height difference is more than 10 cm and only by experienced users.

- \* Make sure the anti-tip device is deactivated
- \* Drive backwards towards the kerb
- \* Bend forward and drive carefully down the kerb.



High tilting risk at this technique

#### **Backwards, with assistance**

- \* Make sure the anti-tip device is deactivated
- \* Drive backwards towards the kerb.
- \* Drive carefully down the kerb and pull the chair away from the kerb.
- \* Put down the front wheels.



## **GB** ROADABILITY 3/4

### **Driving DOWN/UP a hill**

Follow the below to avoid tilting when driving down/up a hill.

#### **Driving down:**

Sit upright in the chair. Correct the speed with the hand rims and not with the brakes.

#### **Driving up:**

Bend forward to correct the point of gravity.



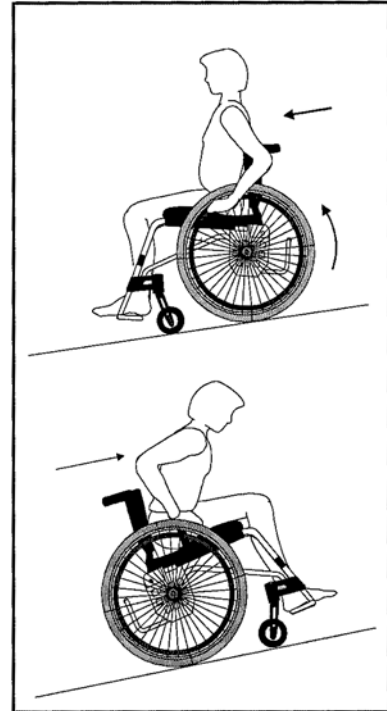
Avoid to turn around in the middle of the hill.



Always sit as upright as possible



Better to ask for help than to take a risk on your own.



## GB ROADABILITY 4/4

### Driving UP stairs



Always ask for help.



Never enter an escalator even with help from others.

Backwards, with assistance:

- \* Make sure the anti-tip device is deactivated and the handles are tightened securely.
- \* Drive backwards toward the first step.
- \* Tilt the chair and pull up the chair one step at a time. Make sure to keep balance on the rear wheels.
- \* Pull the chair away from the last step and put down the front wheels.

### Driving DOWN stairs



Always ask for help.



Never enter an escalator even with help from others.

Forward, with assistance:

- \* Make sure the anti-tip device is deactivated
- \* Drive towards the first step and tilt the chair.
- \* Drive down one step at a time. Make sure to keep balance on the rear wheels.
- \* Put down the front wheels after the last step.



If two helpers are present, one can assist by lifting at the front.



The helpers need to make sure to lift the correct way - with the strength from the legs and not from the back.

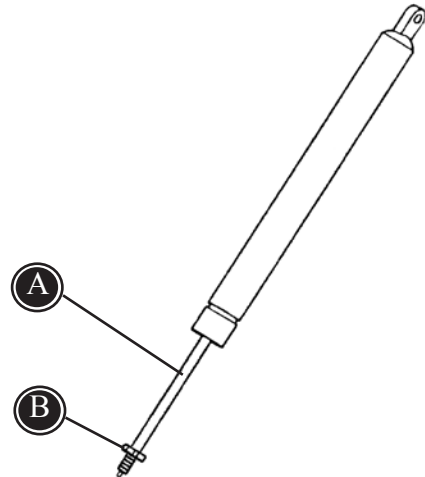
## GB GAS SPRING ADJUSTMENT

Occasionally the gas spring may need to be adjusted. The adjustment is only necessary when:


- the gas spring releases itself slowly
- the gas spring can not be released at all

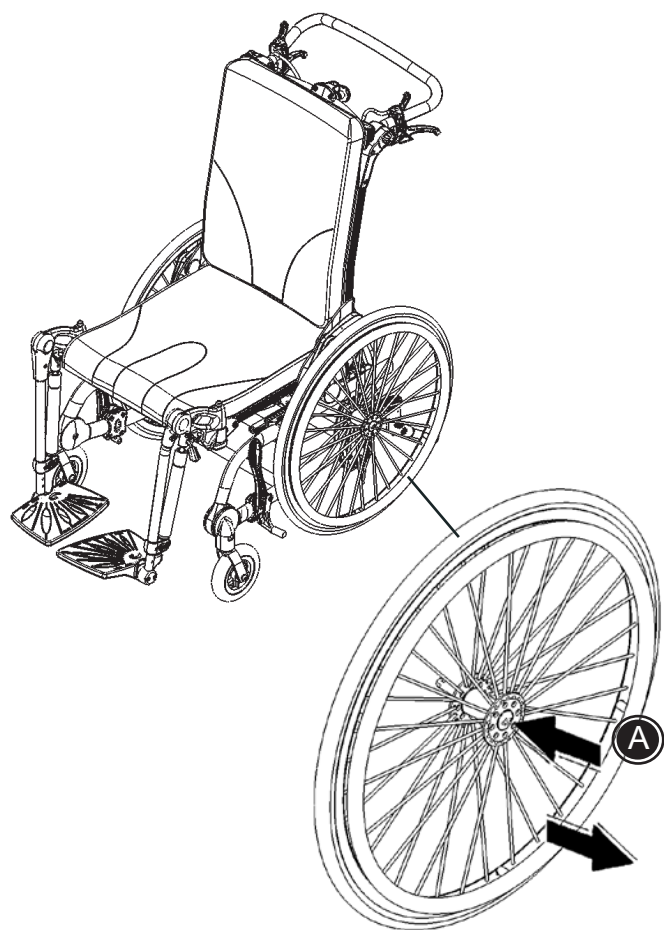
If the gas spring releases itself; loosen the nut (B) with a 17 mm wrench. Next turn the piston rod (A) counter clockwise to tighten. Then fasten the nut (B) again.

If the gas spring can not be released at all; loosen the nut (B) with a 17 mm wrench. Then turn the piston rod (A) clockwise to loosen. Fasten the nut (B) again.



 Do not expose the gas spring to pressure or high temperatures. DO NOT puncture.

 Do not expose the piston rod to scratches ect. It is important to use a cloth or the like, if tools are used to adjust the gas spring.



## **GB** QUICK RELEASE WHEELS

Quick Release axle pins on the rear wheels is a standard feature of the Cougar - This aids in quick and easy removal (A): Push the release mechanism in the middle of the wheel and pull to remove the wheel.

To remove the wheel depress the release mechanism (A) located in the middle of the wheel. Slide the axle pin with the wheel away from the chair.



When replacing the wheels please make sure that the release pin head clicks back out to lock the wheel to position.



Pull on the wheel to confirm that the axle pin has locked back into position.

## **GB** ANGLING THE SEAT & BACK

### Angling the seat (tilt in space):

Activate the left handle (A) on the push handle to adjust the angle of the seat.

The Cougar can be ordered with or without a gasspring for reclining the back. Please follow the description below to angle the back on your Cougar:

### Angling the back (with gasspring mounted):

Activate the right handle (B) on the push handle to adjust the angle of the back.

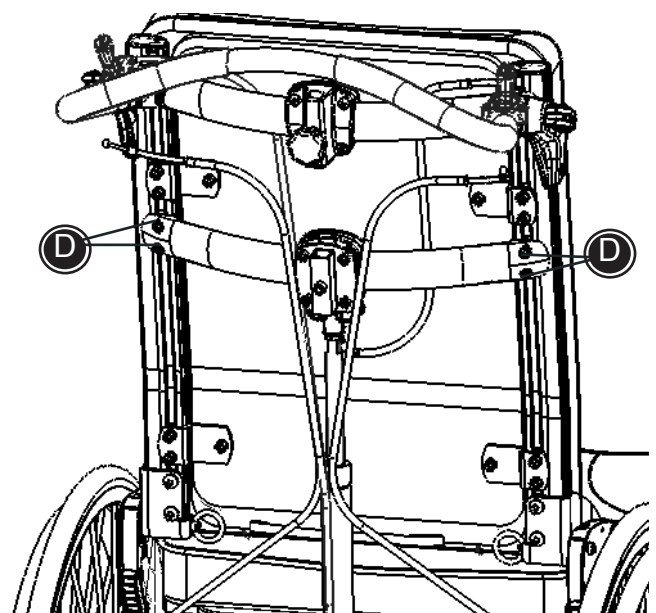
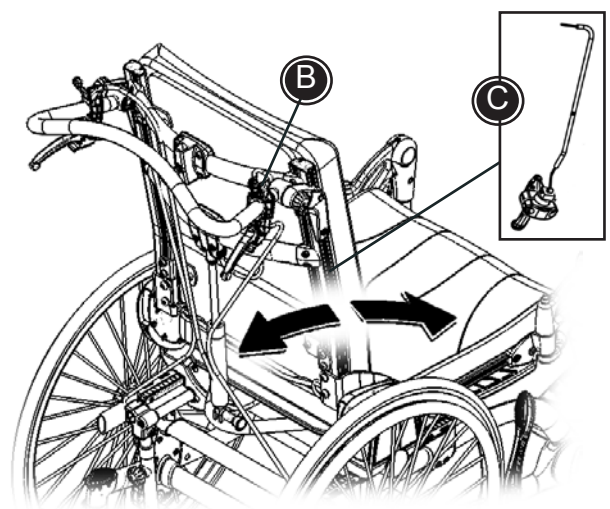
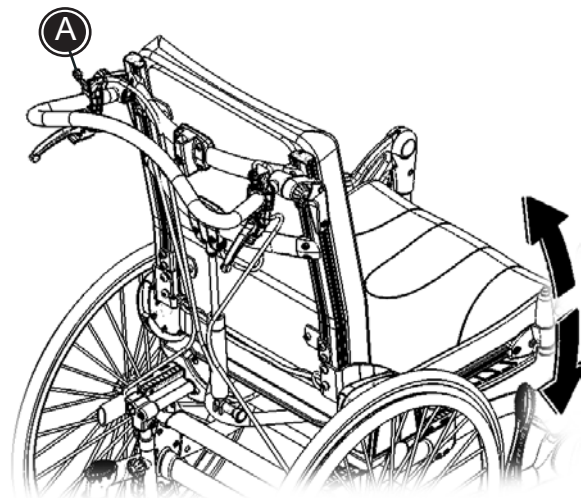
### User-operated back adjustment:

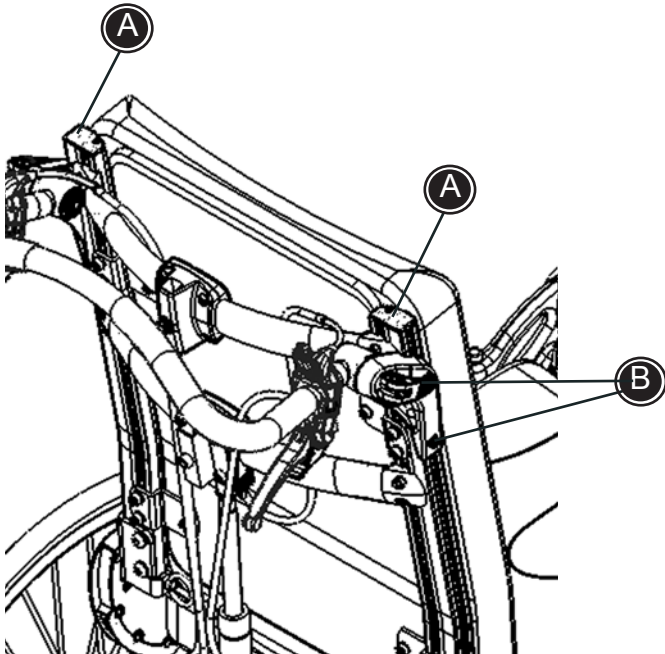
The Cougar can be equipped with an user-operated back adjustment (C). Mount the handle in the rail on the back.

The angling adjustments are easy, even with a user sitting in the chair.

### Angling the back (with fixed bar mounted):

Loosen the screws (D) using a 5 mm Allen key and adjust the height of the cross bar. When adjusting the height of the bar the angle of the back will automatically change. Fasten the screws in the desired position.





## GB MOUNTING THE PUSH BRACE

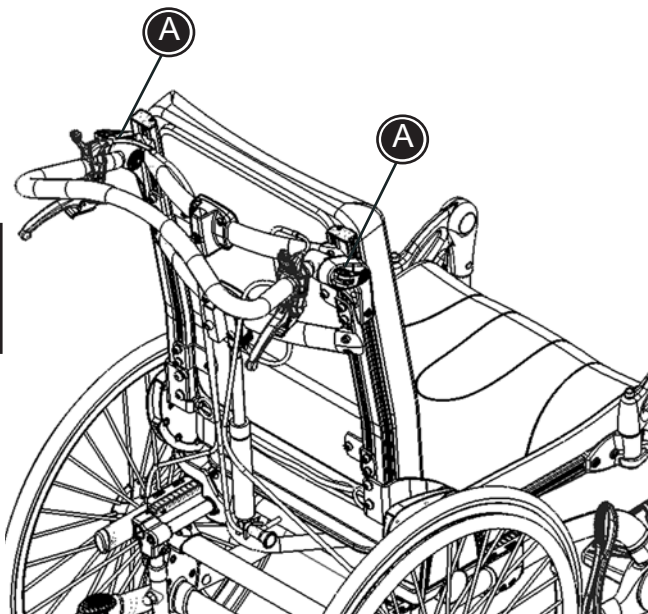
Follow the instructions below to mount the push brace.

- 1) Remove the ferrules (A) at the top of the frame.
- 2) Push the push brace into the slides, and tighten the 2 screws (B) in each side.



The top screw is fitted to the mark in the slide to secure that the push brace can not be pulled up when in use.

- 3) Mount the ferrules (A) again.



## GB ADJUSTMENT OF THE PUSH BRACE

The angle of the push handle is easy to adjust so that it can be used by carers of different heights.

- 1) Press down the locking pin (A) and pull the handle to release the push handle.
- 2) Adjust the angle.
- 3) Push in the handle and make sure the locking pin "clicks" into place.



Do not pull/lift the chair with the push handle, especially on stairs.



## GB ANTI-TIP DEVICE

Anti-tips are standard equipment on the Cougar. The anti-tip devices are mounted on the back of the chair beneath the seat.

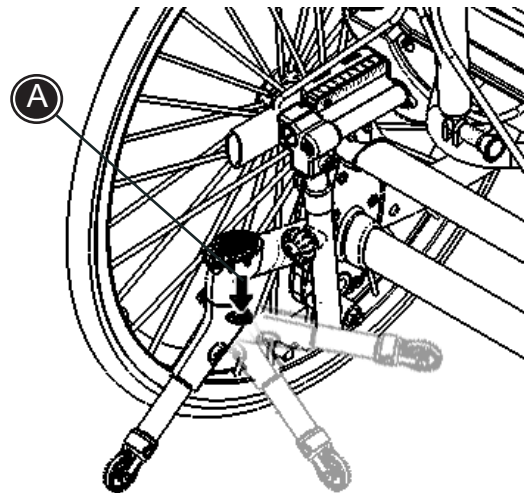
Activate the anti-tip device with the foot at position (A). To deactivate, turn it around 180°.



The anti-tip device must be activated when the wheelchair is tilted.

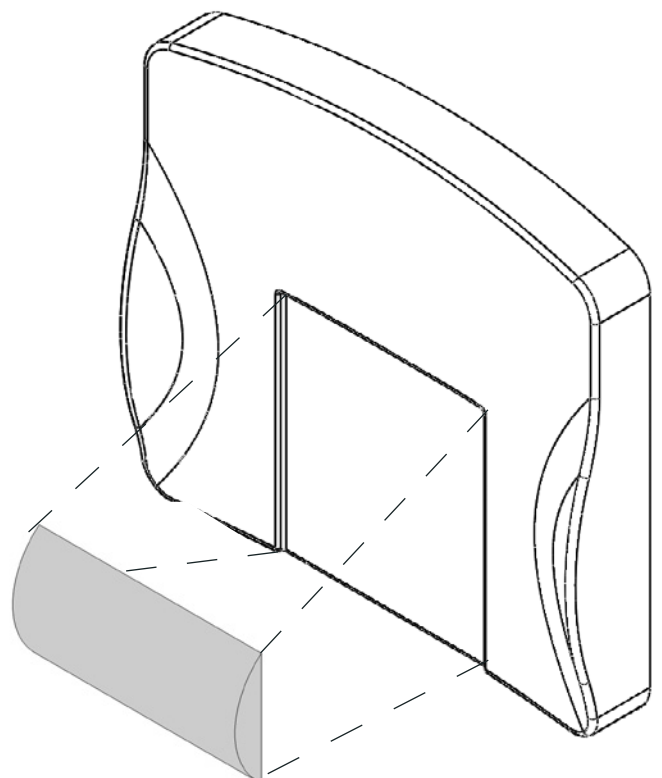


We recommend periodically checking the anti-tip devices to make sure they are in proper working condition.



## GB ADJUSTING THE LUMBAR SUPPORT

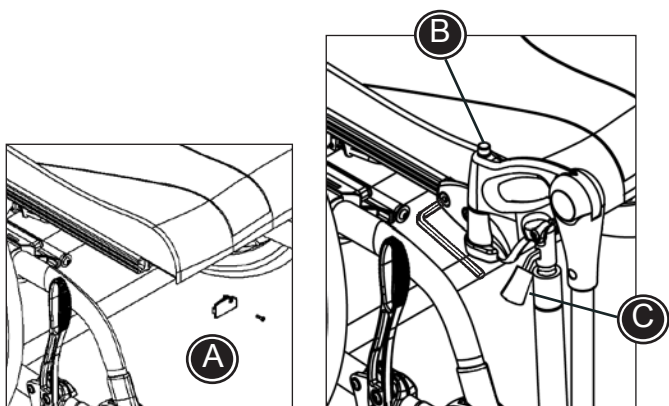
- \* Remove the cover.
- \* Place the lumbar support at the requested spot on the back cushion, so it sticks to the velcro.
- \* Put the cover back on.





## GB LEG RESTS AND FOOT PLATES

Follow the directions below to install leg rests on the Cougar:

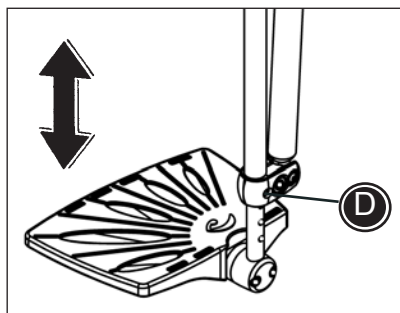


### 1) Installation of the leg rests:

Remove the end-piece (A) by using a screw-driver. Install the fittings for leg rests and fasten with the enclosed 5 mm Allen key. Reinstall the end-piece. Place the leg rest in the fitting. Push down the release button (B) when installing/removing the leg rest. Make sure the release button clicks into place.

### 2) "Swing-away" function:

Push down the release button (B) and pull the leg rest up a little to be able to swing it to the side. Turn the leg rest into place and make sure the release button (B) clicks into place for use.

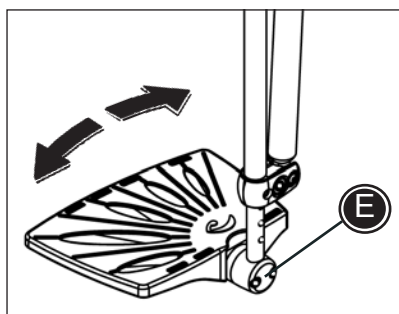


### 3) Angle adjustable leg rests:

Push down the handle (C) to angle the leg rests individually.

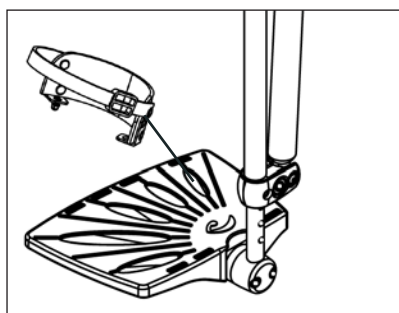
### 4) Height adjustable foot plate:

Remove the screw (D) by using the enclosed 5 mm Allen key. Adjust the height of the foot plate and replace the screw.



### 5) Angle adjustable foot plate:

Use the enclosed 5 mm Allen key to loosen the screws (E). Adjust the angle of the foot plate individually and fasten the screws.




### 6) Mounting of heelstops:


Place the heelstop on the footplate and fasten with the enclosed screws through the holes in the plate.


## GB SEAT HEIGHT ADJUSTMENT

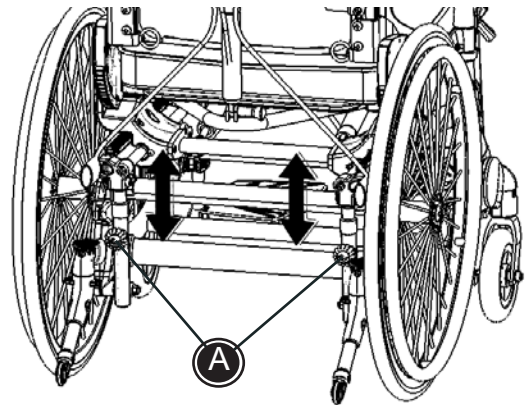
Follow the directions below to adjust the seat height of the Cougar:

- 1) Undo the nuts (A) and remove the bolt from the frame.
- 2) Adjust the height to the required position.
- 3) Replace the bolt and fasten the nuts.

 Make sure that the seat height is the same at both sides of the frame.

 Please be aware that the angle of the seat changes as the seat height is adjusted.

 The user must not be in the chair while the height adjustment is made.




## GB ADJUSTMENT OF THE SLIDE BAR FUNCTION


Release the gas spring on the back of the chair by activating the right handle (A) on the push brace.


Pull the seat all the way back to obtain the correct starting position for adjustment.

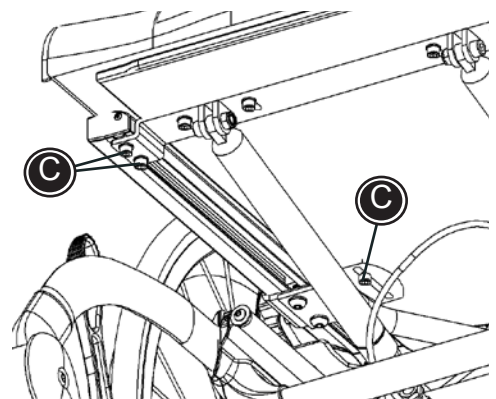
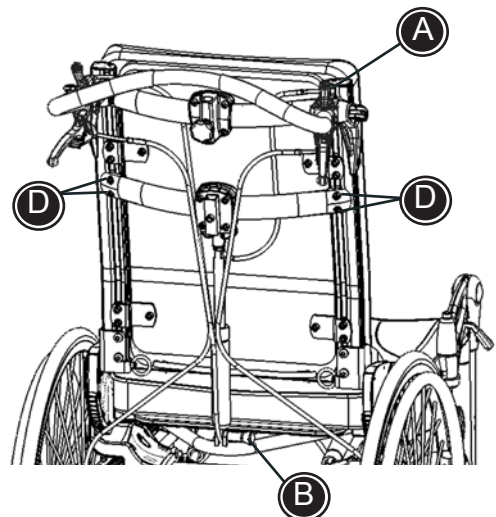
Follow the description below to adjust the slide bar function:

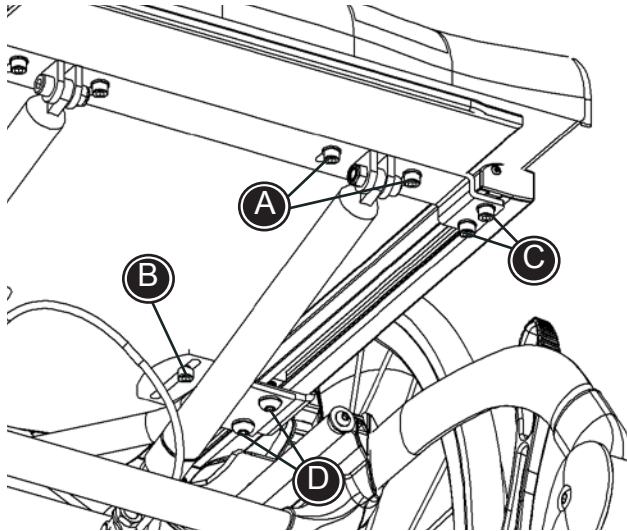
- 1) Remove the lower part of the gas spring (B).
- 2) Loosen the screws (C) beneath the seat and adjust to the required position. Fasten the screws.
- 3) Loosen the screws (D). Adjust the height of the bar on the back to be able to replace the lower part of the gas spring. Then tighten the screws.

 Please ensure that the fitting beneath the seat is the same on both sides of the frame.

 The height of the bar must be the same on both sides of the chair.

 The user must not be in the chair while the seat angle adjustment is made.





## GB SEAT DEPTH ADJUSTMENT

Release the gas spring on the back of the chair by activating the right handle on the push brace.

Pull the seat all the way back to obtain the correct starting position for seat depth adjustment.

The seat can be adjusted up to 10 cm in depth. Follow the directions below for correct adjustment.

- 1) Tip the chair backwards so that the wooden seat plate beneath the chair is accessible. Remove the leg rests to get a better view.
- 2) Remove the screws (A) and (B) by using the enclosed 5 mm Allen key.
- 3) Move the wooden plate into the required position. The pre-drilled holes in the wooden plate have an interval of 5 cm.
- 4) Replace and tighten the screws (A) and (B).
- 5) Loosen the screws (C) and (D) on each side of the chair to move the rails forward/backward.
- 6) Tighten the screws (C) and (D) in the required position.



Do not activate the handle for seat angling during the above adjustment.



The bar on the back must be adjusted to the same position on both sides.

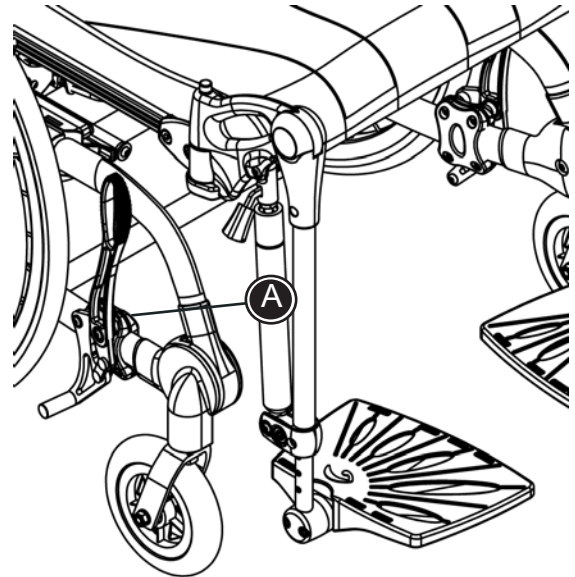
## GB WHEEL LOCK


Wheel locks are mounted on the lower frame and can be operated by either user or helper.


- \* Push the handle forward to lock the wheel
- \* Pull the handle backward to loosen the wheel lock

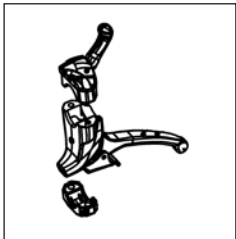
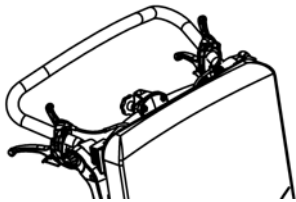
The wheel locks are installed on the frame and can be moved forward and backward, depending on wheel size and brake efficiency. Move the fittings backward and the chair will be locked more. Move the fittings forward and the chair will be locked less efficiently.

Loosen the screws (A) with the enclosed 4 mm Allen key to adjust the placement of the wheel lock. Fasten the screws in the desired position.



 Keep the recommended air pressure, 55 PSI/3,8 bar/380 kPa in the rear wheels, to make sure the brakes work properly.

 To ensure the safety of the user, we strongly recommend distance of 8-10 mm, between the wheel and the wheel lock block.



## GB DRUM BRAKE

The drum brake handles are installed on the push brake and are operated by the helper.

- \* Squeeze the handle to activate the brake.
- \* Pull the red handle to disengage the brake.

## GB WHEEL COMBINATIONS

The recommended wheel combinations on the Cougar are described below.

If another seat height is desired, use the seat height adjustment described elsewhere in this manual.

Wheel combinations:

	12½"	20"	22"	24"
6"	✓	✓	✓	✓
8"	✓	-	✓	✓



It is important to adjust the angle of the front fork if the wheel size is changed. To ensure proper rolling keep the front forks perpendicular to the floor and both front forks at same angle.

Make sure that the right anti tip safety is used.

	12½"	20"	22"	24"
6"	short	short	long	long
8"	short	-	long	long

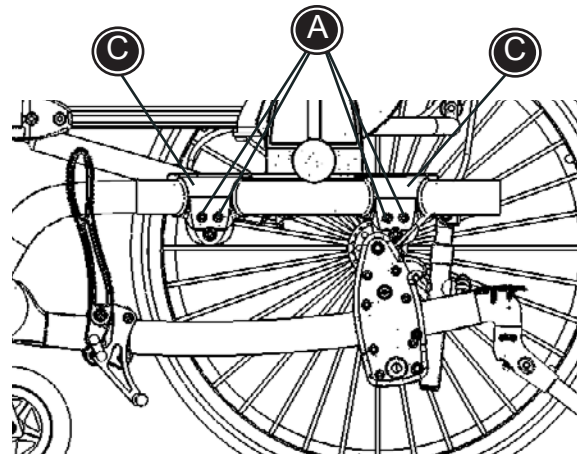


## GB CHANGING POINT OF GRAVITY

The point of gravity can be changed on the Cougar by changing the seat and wheel placement.

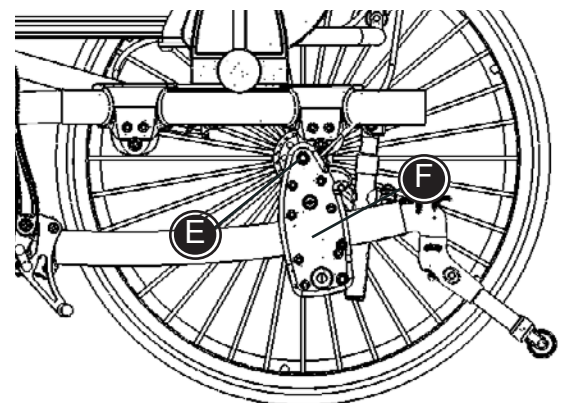
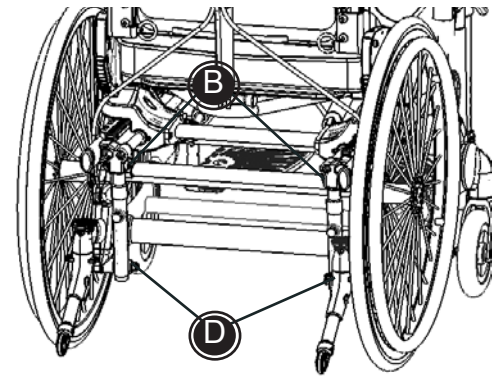
### Seat placement:

- 1) Remove the rear wheels
- 2) Loosen the 4 screws (A) on both sides of the frame.
- 3) Dismount the height adjustment (B)
- 4) Move the seat backwards or forwards by slightly pulling the frame to the sides. Move the unit (into position A, B or C). Make sure the fittings (C) "clicks" into place.



### Wheel placement:

- 1) Dismount the height adjustments (D).
- 2) Dismount the wheel suspensions (E) on both sides of the frame.
- 3) Flip the seat unit away from the frame and remove the 7 screws from the plastic part (F). The outer cover plate can now be removed. Remove the small plastic plugs from the holes on the inside of the frame.
- 4) Now the wheel suspension on the cross bar can be moved into the desired position (A, B or C). Pull slightly the frame to the sides and move the wheel suspension forward or backward. Make sure the wheel suspension "clicks" into place in the desired position.
- 5) Remount the screws and the cover plate. The plastic plugs are remounted in the holes in the seat unit and flipped back into place. Remount the wheel suspension and the rear wheels. The Cougar is ready for use.



Remember that the wheel locks also need to be moved forwards or backwards.



When 24" wheels are placed in the front position A, drumbrakes must be used.



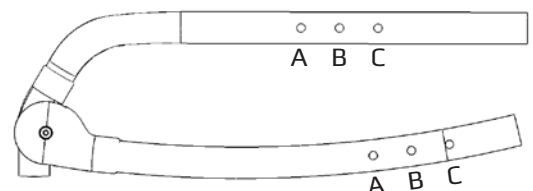
We recommend that the seat placement adjustment is made by a skilled technician.

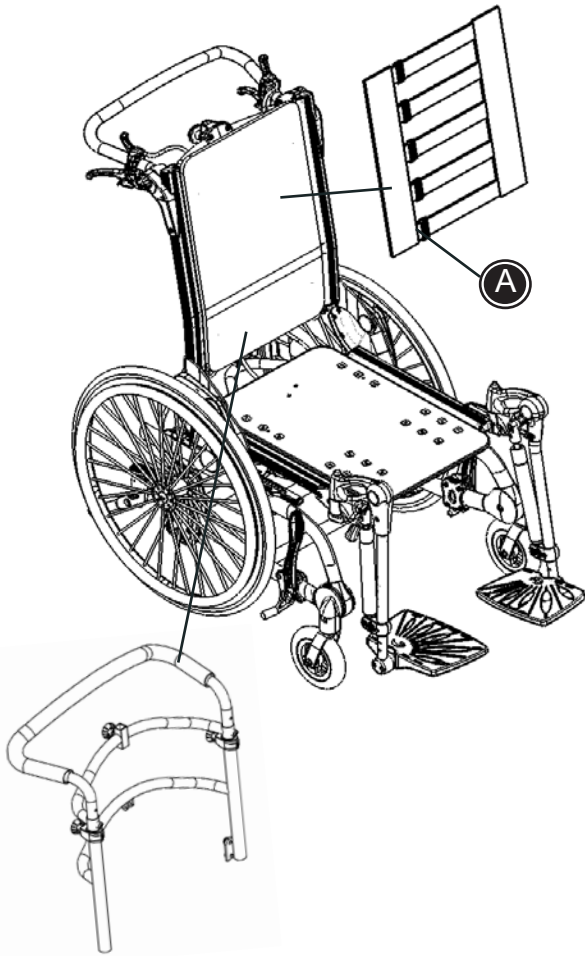


It is important to tighten all screws securely and inspect them regularly, especially after adjustment of the center of gravity.



If the center of gravity is adjusted towards the front of the chair, the chair may become tippy. We recommend activating the anti-tips.





## GB COUGAR BACK

The Cougar may be purchased with either a wooden back, strap back or manufactured for a special back system.

### Back with a wooden plate:

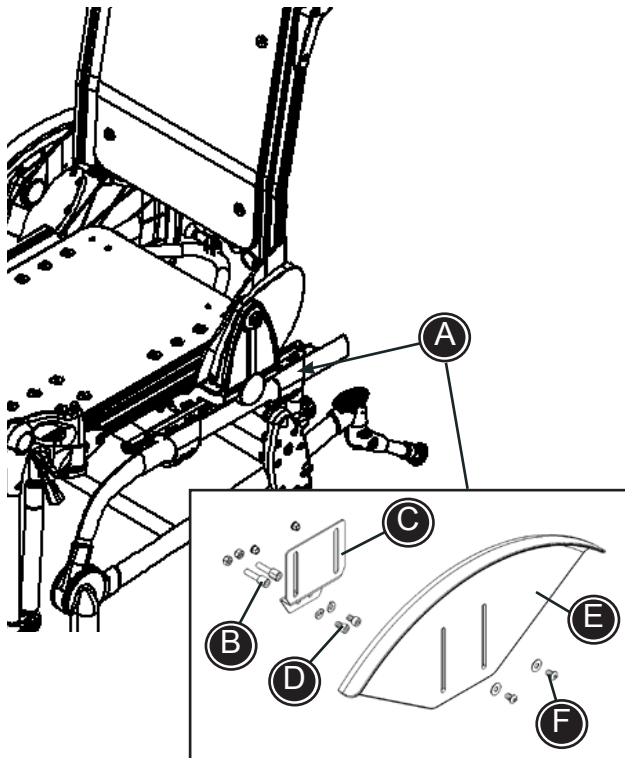
The wooden plate is mounted in the rails on the back.

### Strap back:

The strap back is mounted in the rails on the back. The straps can be adjusted to obtain e.g. more or less lumbar support. The straps are equipped with velco (A) to aid the adjustment.

### Prepared for foreign back:

The Cougar can be manufactured for special backs from other manufacturers to be installed. The "special" back and its fittings can be mounted on the round tubes in the back. Follow the instructions which is included with the "special" back.



## GB MUDGUARD

Mudguards can be mounted on the Cougar. Follow the description below to mount the mudguards correctly:

- 1) Mount the fitting for the mudguards in the plastic fitting on the rear part of the frame (A). Remove the two screws and mount the enclosed bushings (B).
- 2) Then mount the fitting (C) using the enclosed spring washer and bolts (D). Use the 5 mm Allen key.
- 3) Finally place the mudguards (E) in the fittings. Bolts, washers and nuts (F) are pulled as far up the rails as possible and tightened.



On some adjustments of the chair it might be an advantage to mount the mudguard on the other side of the fitting.



## **GB** ARMRESTS WITH SIDE PLATES AND ARMREST EXTENSIONS

Loosen the screw and remove the end piece from the seat rail. Install the armrest fitting in the seat rail (A) and fasten with the enclosed 5 mm Allen key.

The fittings can be moved forward or backwards depending on where the armrests need to be placed.

Mount the armrest in the fitting. Push the button (B) and move the armrest up/down to the desired position. Release the button to lock.

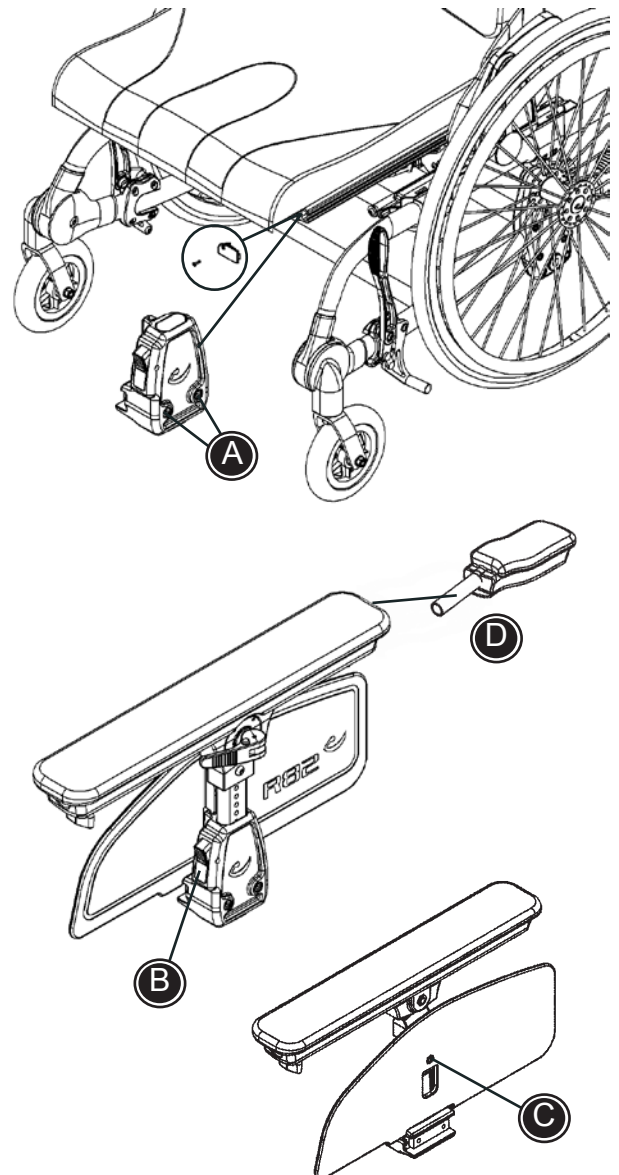
### Side plate:

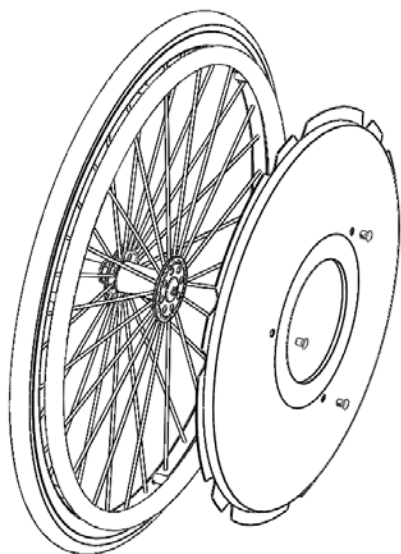
At delivery the side plate is installed on the armrest bar. The side plate can be adjusted up or down depending on where the side plate is needed. Remove the screw (C) using the enclosed 5 mm Allen key. Move the side plate to the desired position and reinstall the screw.

The side plate can also be used without the armrest. Remove the side plate and place it in the small hole in the armrest fitting. The side plate is not height adjustable in this position.

### Armrest extension:

The armrest can be equipped with an extension. Install the extension in the end of the armrest (D) and fasten with the fingerscrews.

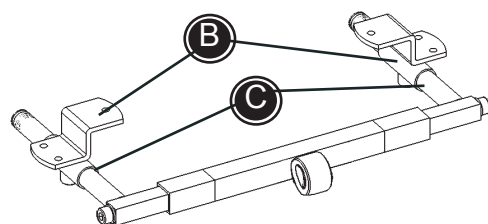
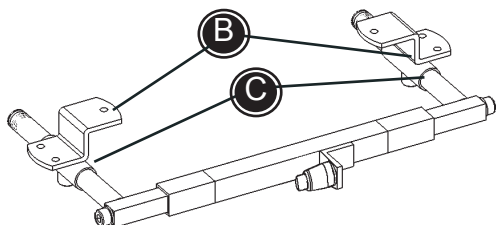
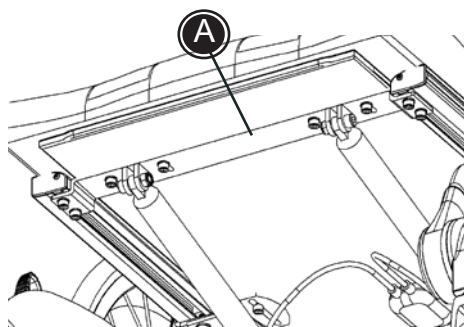




## GB SPOKE PROTECTORS

Follow the description below to mount spoke protectors on the Cougar:

- \* Place the protector on the spokes
- \* Mount the enclosed clips through the holes in the spoke protectors and click into place on the spokes.



## GB MOUNTING OF FOOT SUPPORT

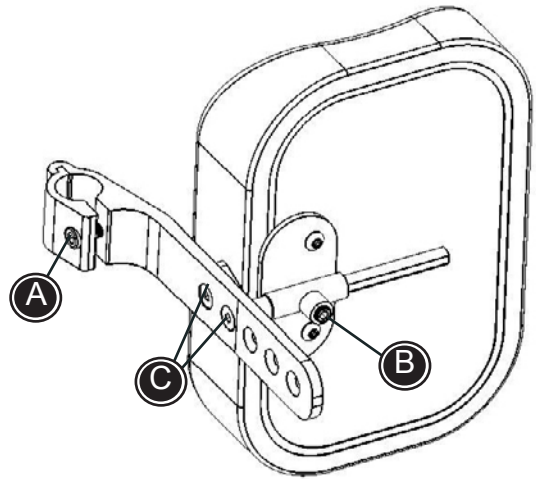
The Cougar can be equipped with various foot supports and foot support bars. Follow the description below for correct mounting:

- \* Dismount the fittings (A) under the seat og mount the new fittings (B).
- \* Place the footrest mounting i the pipes on the fittings (B).
- \* Mount the desired foot support bar and foot supports/footplate, and the Cougar is ready for use.

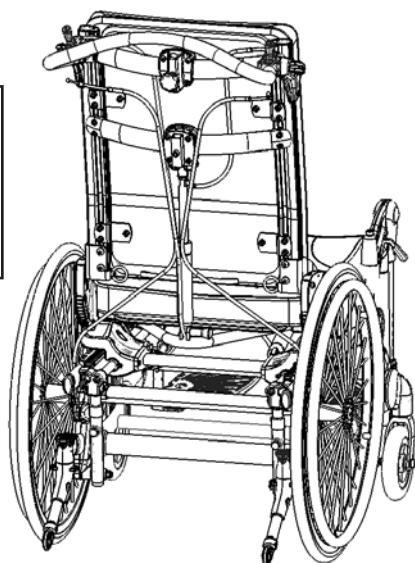
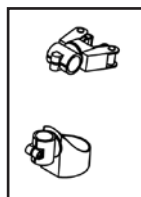
## GB LEG SUPPORT

The calf support can easily be adjusted in height and angle.

- \* Height adjustment. Loosen the screw (C).
- \* Sideway adjustment. Loosen the screw (D).
- \* Angling. Loosen the screws (E).
- \* Depth adjustment. Reposition the screws (E) in the mounting plate.

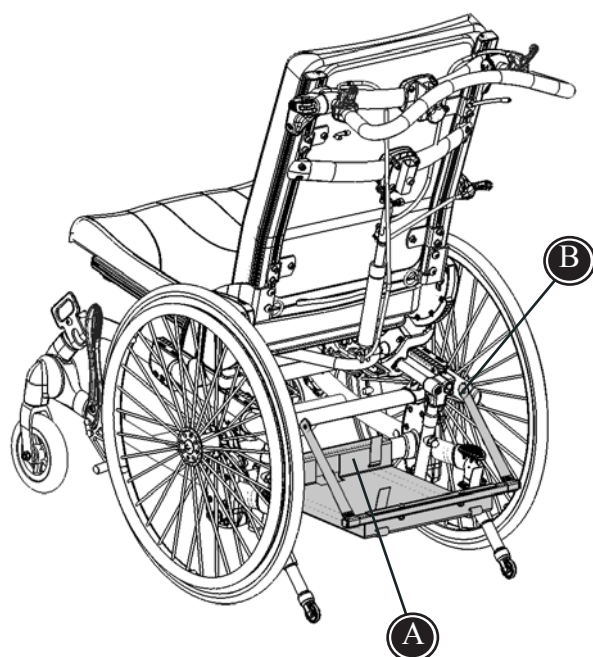


Make sure that all the screws are tightened securely.



## GB CANE HOLDER

A cane holder can be mounted on the Cougar. Mount the fittings respectively on the top and on the bottom of the frame.



## GB VENT TRAY FOR VENTILATOR

- \* Place the vent tray on the bottom bar on the frame (A).
- \* Drill a 5 mm hole on each side of the frame and mount the straps with the enclosed bolts (B).
- \* Adjust the quick release straps to place the vent tray in horizontal position. Please note that when used in transportation the vent tray has been designed for quick and easy removal.

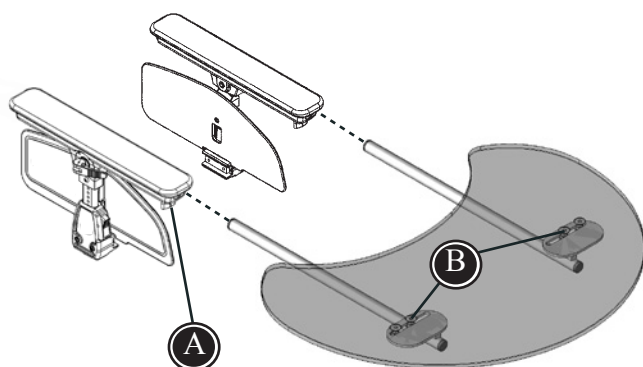
**i** Once set the Ventilator can be secured using the restraining straps provided.

**i** You could ask your local dealer for help on mounting the vent tray.

## GB TRAY

Mount the tray in the end of the armrests, fasten with the fingerscrews (A).

Use the enclosed 5 mm Allen key to adjust the width of the tray (B).

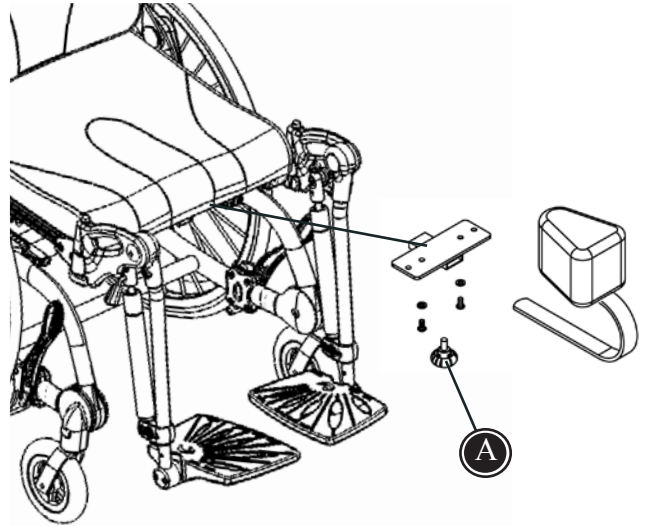


## GB POMMEL

The pommel may be purchased as an accessory for the Cougar.

Install the fitting in the pre-drilled holes located below the seat. Use the enclosed screws and the 4 mm Allen key.

Install the pommel in the fitting and fasten with the fingerscrews (A).

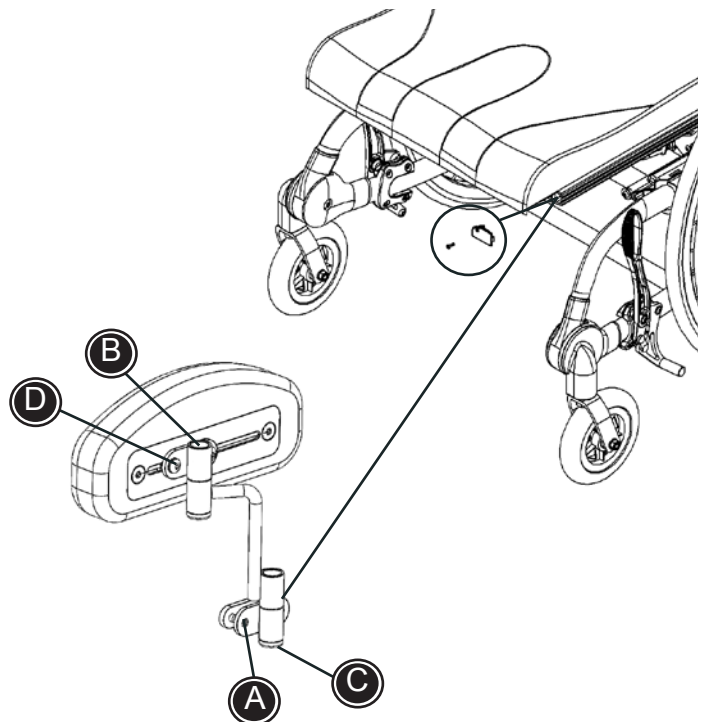


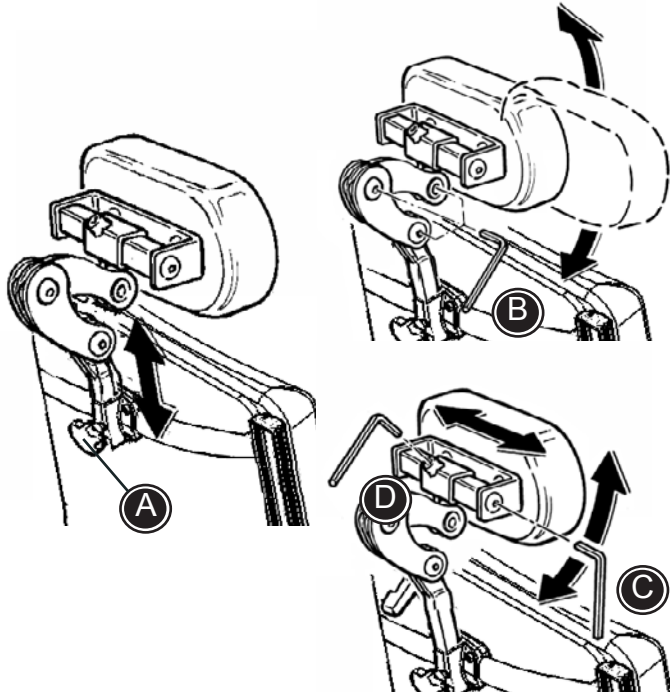
## GB HIP SUPPORTS

Loosen the screw and remove the end piece from the seat rail. Mount the hip supports and fasten with the enclosed 3 mm Allen key (A).

The hip supports are multi-adjustable. Loosen the screws (B) and (C). Adjust the hip support and fasten with the enclosed 5 mm Allen key.

The hip supports can be adjusted in depth. Loosen the screws (D) in the fitting using the enclosed 3 mm Allen key. Adjust the depth in the fitting and fasten in the desired position.



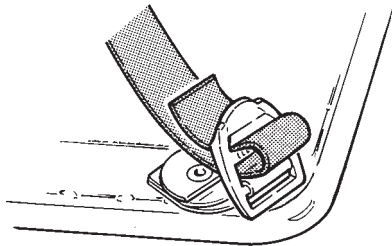


## GB HEAD SUPPORT

Install the head support in the fitting on the back of the chair. Fasten with the fingerscrews (A).

Loosen the Allen screws (B) to adjust the head support bar. It is a good idea to loosen all screws at one time. Make the adjustment and fasten all screws.

Adjust the angle (C) and adjust the head support sideways (D).



## GB VESTS & BELTS

As standard feature the Cougar is equipped with belt attachments for e.g. a hip belt.

More vests and belts can be installed on the chair. Install fix-locks as described above.



Take care that all the fixations and adjustments are placed and fitted correctly and check it on a regular basis.

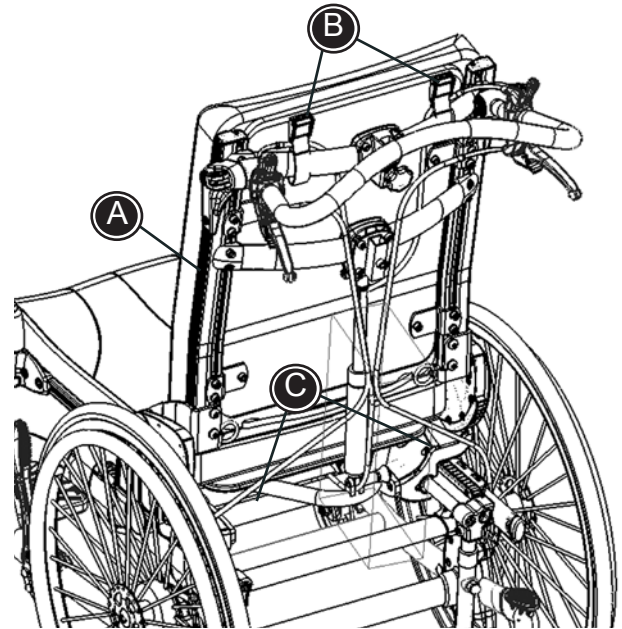


## GB FIX-LOCKS

Fix-locks can be mounted in the rails of both the seat and the back (A). The fix-lock with the v-track is placed in the rail. Turn the v-track to horizontal. Pull the fix-lock outwards while it is fastened with the enclosed 3 mm Allen key.

Two fix-locks with straps can be mounted on the top bar on the back (B). Mount the strap around the bar with the metal buckle on the inside. Fasten the strap in the metal buckle and tighten securely.

Fix-locks can also be mounted on the back of the seat (C). Mount the fitting with the fix-locks in the pre-drilled holes on the upper side of the wooden plate. Use the enclosed screws to fasten the fitting.







## TRANSPORTATION IN MOTOR VEHICLES 1/2

The Cougar wheelchair is approved for transporting users in motor vehicles, when the wheelchair is placed in a forward-facing position. Follow the directions below to ensure safety:



The approval is not valid on special made chairs or combinations of seat- and back-systems not made by R82.



The Cougar wheelchair is approved for transporting users in motor vehicles at a max. load/user weight of 75 kg/165 lbs



The user should transfer to the vehicle seat and use the vehicle-installed restraint system whenever possible.



The wheelchair has been dynamically tested according to ISO 7176-19



The wheelchair must be placed in a forward-facing position, when used as a seat in a motor vehicle. Use an approved 4-point strap-type tiedown system.



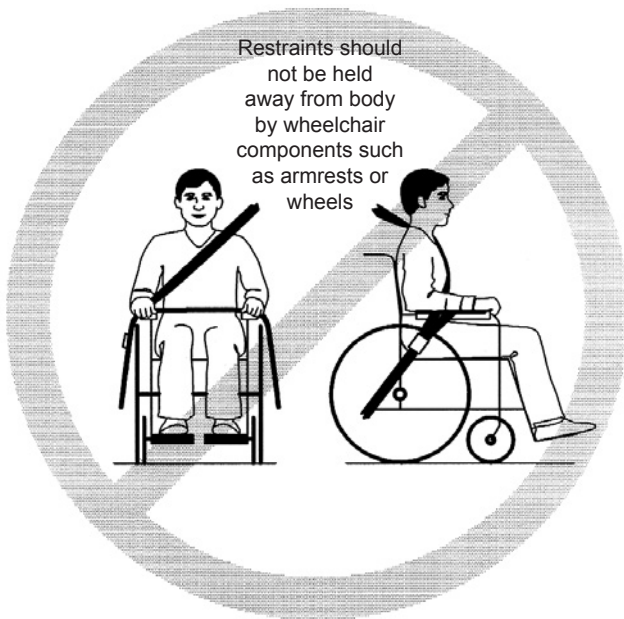
Use an approved 3-point belt in the wheelchair. Restraints should not be held away from the body by wheelchair components such as armrests or wheels. It is *not* sufficient to use only a hip belt!



All accessories must be removed from the wheelchair and secured separately in the vehicle. Accessories which can not be removed, must be secured to the wheelchair but positioned away from the user with energy-absorbing padding placed between the accessories and the user.

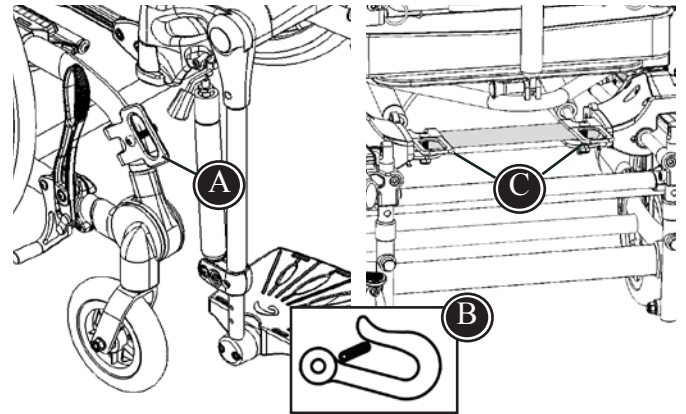


The wheelchair should be inspected by the dealer before reuse following involvement in any type of vehicle impact.



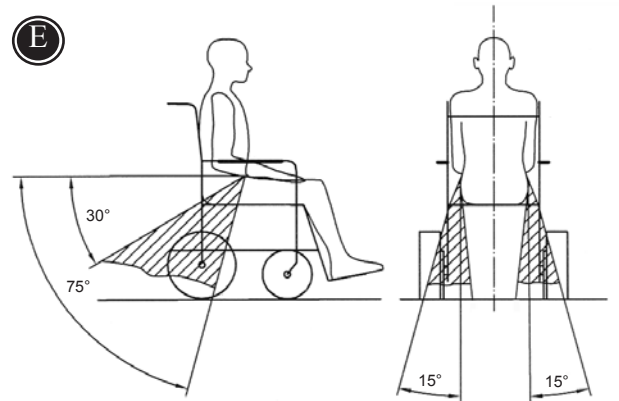
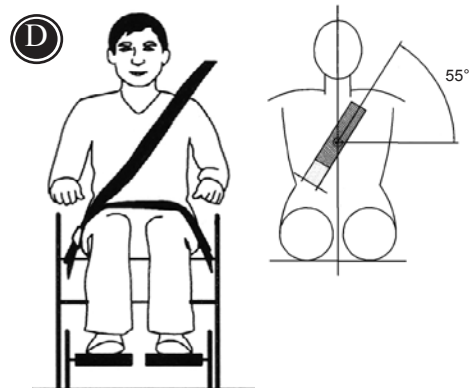
## GB TRANSPORTATION IN MOTOR VEHICLES 2/2

1. Secure the Cougar in the vehicle:
  - \* Mount the 4-point strap-type tiedown system in the vehicle. (Follow the manufacturer's instructions)
  - \* Mount the two fittings (A) with the symbol (B) on the front of the chair.
  - \* Mount the two fittings (C) with the symbol (B) on the back of the chair.
  - \* Secure the wheelchair to the vehicle, using the 4-point strap-type tiedown system. Use either a hook or a strap in the fittings (A) and (C).



**!** Use a 4-point strap-type tiedown system approved according to ISO 10542-2.

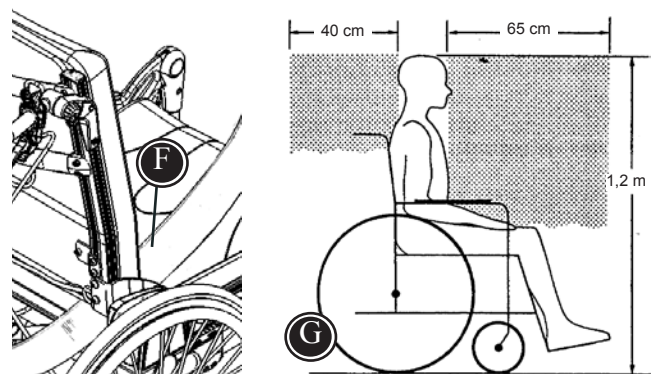
2. Secure the user in the wheelchair:
  - \* Use the 3-point belt as shown on drawing (D).
  - \* The angle on the 3-point belt must be as shown in drawing (E).
  - \* The belt restraints should be adjusted as tightly as possible, consistent with user comfort. Also the belt webbing should not be twisted when in use.
  - \* We recommend a seat angle of 90° and back 3° for the back.



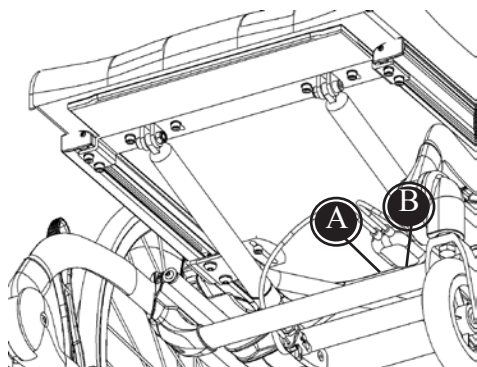
**!** The 3-point belt must be installed on the inside of the side rails. See drawing (F).

**!** Use a 3-point belt approved according to ISO 10542-1.

3. Transportation:
  - \* Remove all accessories from the wheelchair before transport.
  - \* Place the user in a forward-facing position.
  - \* The wheelchair is approved for transporting a maximum user load 75 kg/165 lbs.



**!** Be aware of the recommended safety zone (G) when moving users in vehicles.



## GB PRODUCT IDENTIFICATION

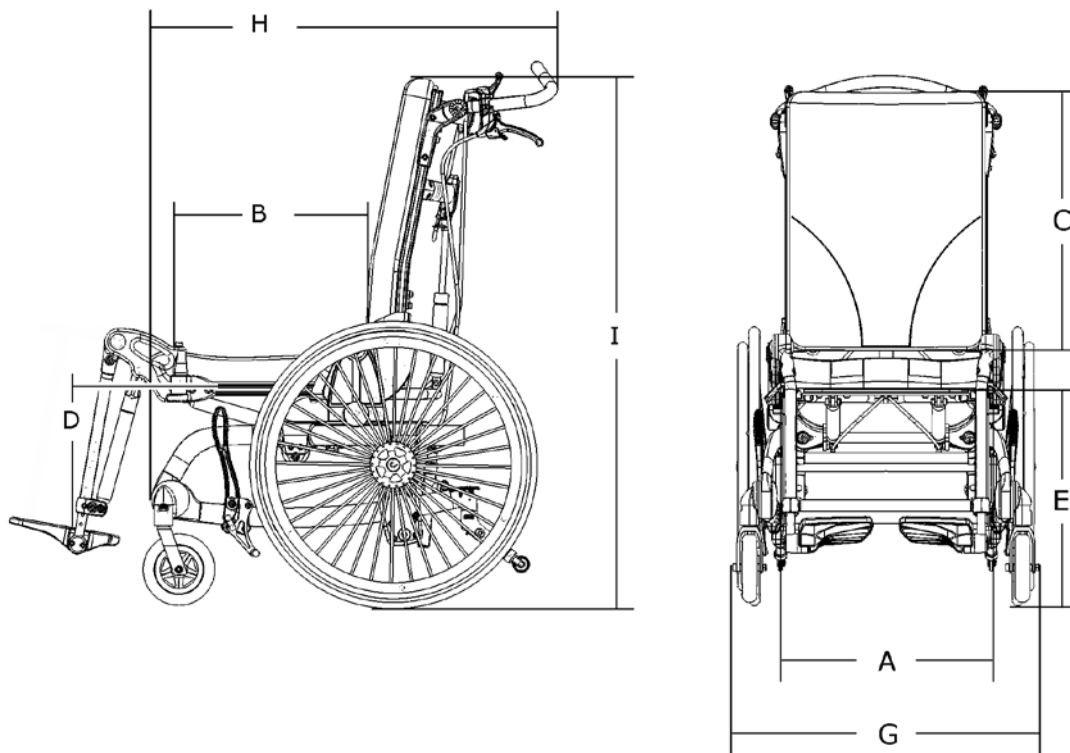
### A) Serial number

The label is placed to the left on the front cross bar beneath the seat.

### B) Manufacturer

The label is placed to the far left on the front cross bar beneath the seat.





## GB MEASUREMENTS

	Size 1 cm (inch)	Size 2 cm (inch)	Size 3 cm (inch)	Size 4 cm (inch)
Seat width (A)	35 (13¾")	40 (15½")	45 (17½")	50 (19½")
Seat depth (B)	35-45 (13¾"-17½")	37-47 (14½"-18¾")	43-53 (16¾"-20¾")	49-59 (19-23")
Back height (C)	45 (17½")	50 (19½")	60 (23½")	60 (23½")
Lower leg length, angle leg rests (D)	28-46 (11-18")	28-46 (11-18")	28-46 (11-18")	28-46 (11-18")
Lower leg length, fixed leg rests (D)	24-42 (9¼"-16¼")	24-42 (9¼"-16¼")	24-42 (9¼"-16¼")	24-42 (9¼"-16¼")
Seat height above floor (E)	46-53 (18-20¾")	46-53 (18-20¾")	46-53 (18-20¾")	46-53 (18-20¾")
Width, 22" wheels & drum brake (G)	57 (22¼")	62 (24¼")	67 (26¼")	72 (28")
Length, without leg rests (H)	78 (30½")	78 (30½")	83 (32¼")	83 (32¼")
Height, to the top of the back (I)	96 (37½")	99 (38½")	108 (42")	110 (43")
Folded without leg rests:				
Width, 22" wheels & drum brake	57 (22¼")	62 (24¼")	67 (26¼")	72 (28")
Height, to the top of the back	66 (25¾")	66 (25¾")	66 (25¾")	66 (25¾")
Length, without leg rests	78 (30½")	78 (30½")	83 (32¼")	83 (32¼")
Turning radius	88 (34¼")	94 (36¾")	97 (37¾")	100 (39")
Weight w/strap back, wo/leg rests	25 kg (55 lb)	26 kg (57 lb)	27 kg (59,5 lb)	28 kg (61,5 lb)
Max. user weight	75 kg (165 lb)	75 kg (165 lb)	100 kg (220 lb)	120 kg (264 lb)
Max. user weight at transportation	75 kg (165 lb)	75 kg (165 lb)	75 kg (165 lb)	75 kg (165 lb)
Angling	Tilt in space: 37° (45°)		Back: 35°	Leg rests: 90°

The Cougar is measured with the following wheel combination, placed in the standard wheel position: 22" rear wheel and 6" front wheel. The Cougar is measured with comfort cushions mounted and the seat in horizontal and back in vertical position. We supply various types of leg rests and cushions, which is why the weight is listed without. Different settings may result in different measurements.

## **GB** TECHNICAL DATA

Frame: Powder lacquered aluminium pipes  
PA6 parts: Fibre glass strengthened Nylon  
Cushions: Fire resistant foam  
Cover: Fire resistant Trevira CS

## **GB** MANUFACTURER

R82 A/S  
Parallelsvej 3  
8751 Gedved  
Denmark

## **GB** CARE AND MAINTENANCE

### UPHOLSTERY

The upholstery is made of fire resistant Trevira material. The upholstery can easily be removed from the cushion and can be machine washed at celsius 40°. Regular vacuuming and brushing will help to preserve the fabric's color and appearance.

### WHEELS

Tires: Check the air pressure (recommended: 55 PSI/3,8 bar/380 kPa) and tread at least once a month. For instance by your local bicycle engineer.

Wheel axles: The axles should be kept free of dirt. Clean as frequently as necessary.

Ball bearings: The ball bearings require no maintenance.

Handrims: If a handrim should be damaged in such a way that it could lead to hand injury, it should be replaced.

### BRAKES

The function of the brakes is dependent upon tire pressure. Caked on dirt can have a negative effect on the brake mechanism. The brakes should be checked at least once a month.

For safety routinely check to make sure the distance between the wheel and the wheel lock block is: 8-10 mm.

If drum brakes are mounted, the cables have to be adjusted, to ensure the brakes are working properly. Make sure the wheels can not be turned around when the brakes are activated. A qualified technician must check and tighten the brakes at least every 6 months.

### FRAME

Tighten all screws on the chair on a regular basis, especially when the chair has been adjusted. Also, it is important to keep the wheelchair clean, both for the users comfort and the longevity of the chair. It is very important to clean the holes for the back angle. Wash the chair with car shampoo or dishwashing liquid. If the chair is especially dirty, a grease remover may be used. Clean the frame especially when it has been in contact with rainwater / salt water. Do not use any cleaning materials containing chlorine or methylated spirit or which is abrasive.

### INSPECTION

It is important to tighten all screws on the chair on a regular basis. The screws in the back and seat must be checked when adjustments to the width have been made. All screws which secure the accessories must be checked, at least once a month. To avoid sharp edges, it is important to check all rail-ends have end caps. Also, it is important to be aware of any cracks or faults in the frame, PVC parts, etc.



The Cougar has to be checked and serviced by a qualified technician at least every 6 months to avoid possible failures.

### REPAIR

If there is a problem with your wheelchair you should contact your dealer at once. Defective chairs should not be used. If your chair needs reconditioning or repair, only original R82 parts may be used. Accessories or available spare parts which are broken can be forwarded to R82 for repair. If there is a problem with any basic parts, the whole chair must be returned to R82 for repair. R82 will not be held responsible for damage or injury caused by use of non-original parts or repairs made by a non-authorized R82 person.

### GAS SPRING

Do not expose the gas spring to pressure, high temperatures or perforation.

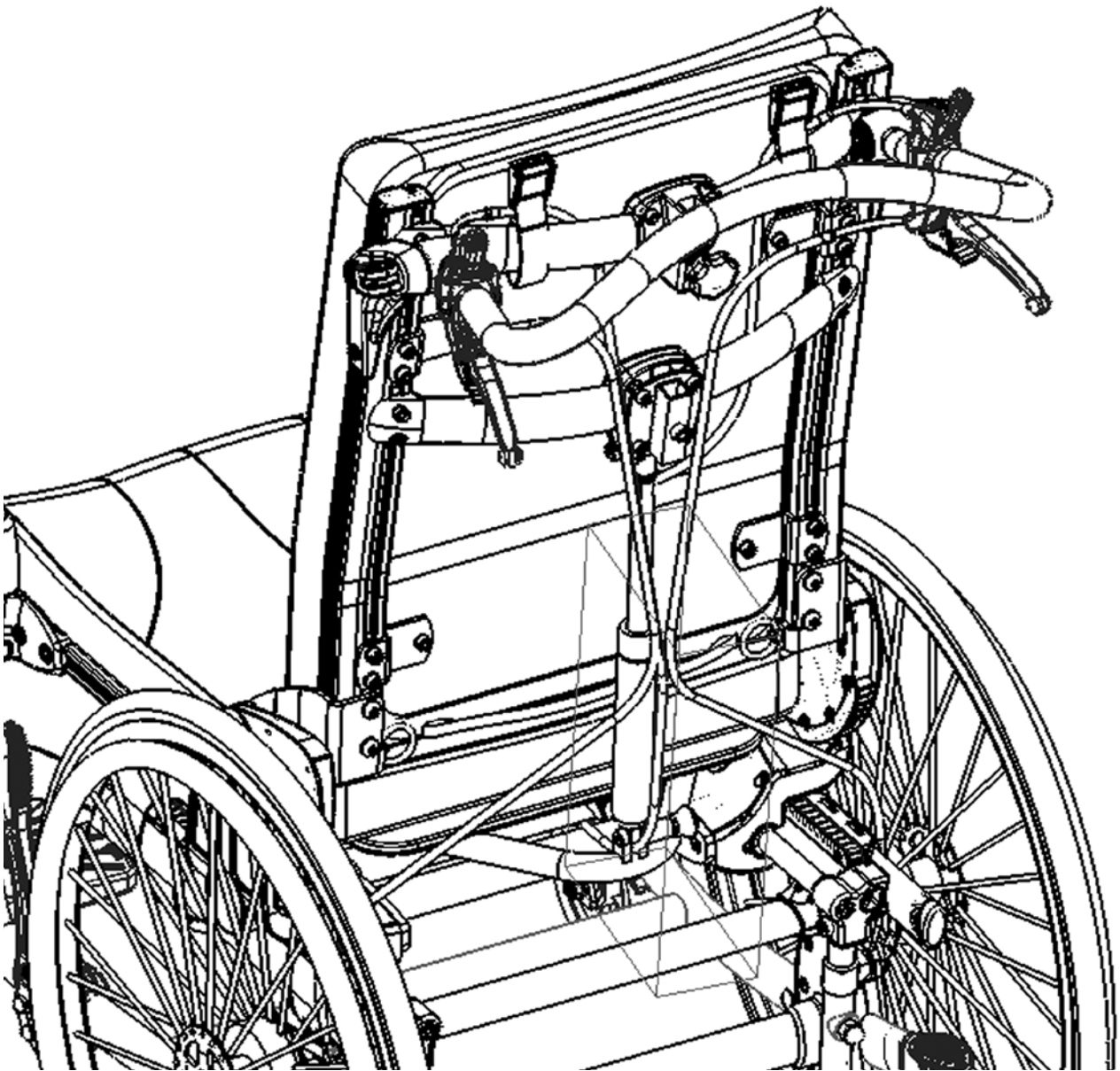


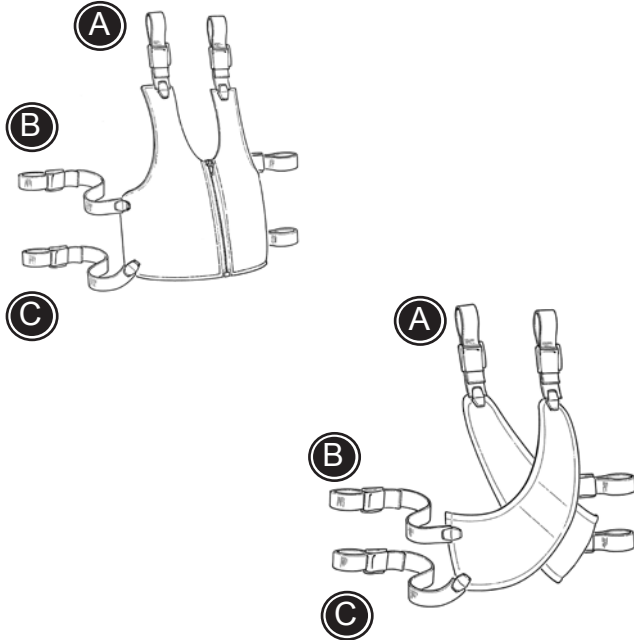
## **GB** TROUBLESHOOTING

<u>Problem*</u>	<u>Solution</u>
Wheelchair will not hold a straight steer	<ul style="list-style-type: none"> <li>- Inflate the tires</li> <li>- Check the front fork attachment angle</li> <li>- Make sure that the front fork attachments are installed at the same height</li> <li>- Make sure the user is distributing weight evenly</li> <li>- Is more strength being used on one side than the other when propelling the chair? Check the tires.</li> </ul>
Wheelchair feel heavy to propel	<ul style="list-style-type: none"> <li>- Inflate the tires</li> <li>- Make sure that the castor axles are free from dirt etc.</li> <li>- Too much weight over the castors. Adjust the centre of gravity.</li> <li>- The brakes have been tightened too much.</li> <li>- Something is stuck to the wheels. Remove any obstructions.</li> </ul>
Wheelchair feels difficult to turn	<ul style="list-style-type: none"> <li>- Inflate the tires</li> <li>- Adjust the angle of the front fork attachments</li> <li>- Make sure that the castor axles are free from dirt etc.</li> <li>- Too much weight over the castors. Adjust the centre of gravity.</li> </ul>
Brakes not effective	<ul style="list-style-type: none"> <li>- Inflate the tires</li> <li>- Adjust the distance between wheel lock and tire</li> <li>- Replace the wheel locks if they are worn out</li> <li>- The cables for drum brake may need tightening</li> <li>- The cables for drum brake may be bent</li> <li>- The hub for drum brake may need to be cleaned</li> </ul>
Rear wheels loose	<ul style="list-style-type: none"> <li>- Make sure that the axle-shaft washer is in place</li> <li>- Adjust the length of the axle shaft</li> </ul>
Rear wheel hard to remove/ replace	<ul style="list-style-type: none"> <li>- Clean and lubricate quick release</li> <li>- Adjust the length of the axle shaft</li> </ul>
<b>GB</b> Castor wobbles	<ul style="list-style-type: none"> <li>- Front forks are not tightened properly</li> <li>- Check that the front fork attachments are mounted at the same height</li> <li>- Adjust the angle of the front fork attachment</li> <li>- Too much weight over the castors. Adjust the centre of gravity</li> </ul>
Wheelchair feels awkward	<ul style="list-style-type: none"> <li>- Inflate the tires</li> <li>- Check that all screws, nuts and bolts are properly fastened/tightened</li> </ul>
Back angling mechanism does not click into place	<ul style="list-style-type: none"> <li>- Release the gas spring in the back.</li> <li>- Pull the strap on the back and put the gas spring into place. Make sure the locking mechanism clicks into place.</li> </ul>
Seat/back seems bent	<ul style="list-style-type: none"> <li>- Make sure the cross bar on the back is horizontal.</li> </ul>
The point of gravity function does not run smoothly	<ul style="list-style-type: none"> <li>- Contact an authorized R82 dealer. Do NOT try to separate anything without guidance .</li> </ul>

\* The user may experience several of these problems in a wheelchair that is incorrectly adjusted or is being used incorrectly.







## GB VEST AND CROSS VEST

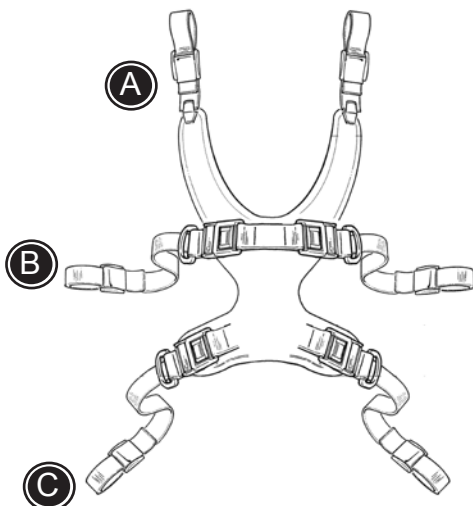
The vest and cross vest can be opened and closed by using the buckles and the zipper.

Follow the instructions below, with help from page 37.

- \* Mount the shoulder straps in the belt fittings on the upper back. (A)
- \* Lead the upper straps in the sides through the slots in the back (B) and fit a fix-lock on the strap.
- \* Mount the lower straps in the side in the belt fittings on the lower back (C).



Take care that all the fixations and adjustments are placed and fitted correctly and check it on a regular basis.



## GB STERNUM BELT

The sternum belt can be opened and closed by using the buckles.

Follow the instructions below, with help from page 37.

- \* Mount the shoulder straps in the belt fittings on the upper back. (A)
- \* Lead the upper straps in the sides through the slots in the back (B) and fit a fix-lock on the strap.
- \* Mount the lower straps in the side in the belt fittings on the lower back (C).



Take care that all the fixations and adjustments are placed and fitted correctly and check it on a regular basis.

## GB CHEST BELT

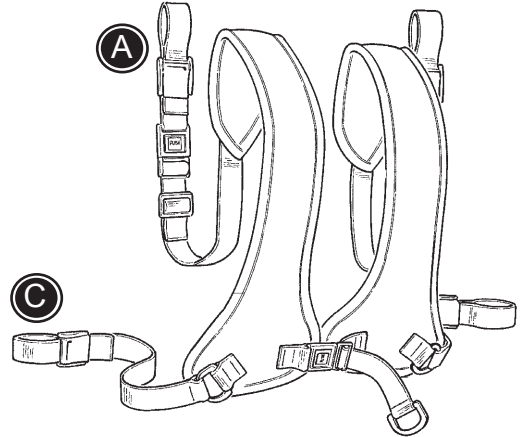
The chest belt can be opened and closed by using the buckles.

Follow the instructions below, with help from page 37.

- \* Mount the shoulder straps in the belt fittings on the upper back. (A)
- \* Mount the straps in the sides in the belt fittings on the back (B).



Take care that all the fixations and adjustments are placed and fitted correctly and check it on a regular basis.



## GB HIP BELT

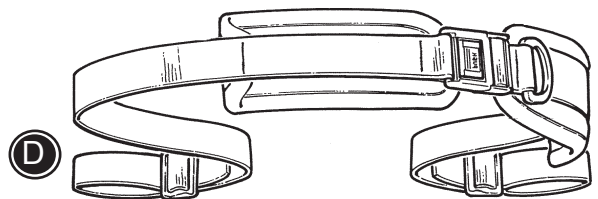
The hip belt can be opened and closed by using the buckles.

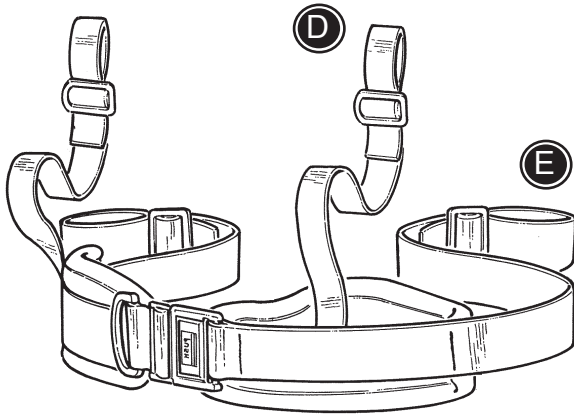
Follow the instructions below, with help from page 37.

- \* Mount the straps in the belt fittings under the seat (D).



Take care that all the fixations and adjustments are placed and fitted correctly and check it on a regular basis.





## GB Y-HIP STRAP

The Y-hip strap can be opened and closed by using the buckles.

Follow the instructions below, with help from page 37.

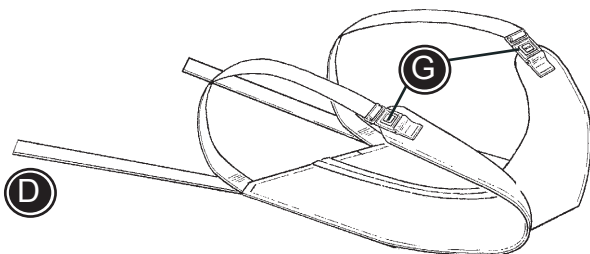
- \* Mount the straps in the belt fittings under the seat (D).
- \* Mount the straps (E) in the belt fittings (E) in the front of the seat.

E and D can be exchanged.



Take care that all the fixations and adjustments are placed and fitted correctly and check it on a regular basis.

GB



## GB PELVIS HARNESS

Follow the instructions below, with help from page 37.

- \* Open the buckles (G).
- \* Mount the straps (D) in the belt fittings under the seat (D).
- \* Place the user on the harness and close the buckles (G) over the thighs.



Take care that all the fixations and adjustments are placed and fitted correctly and check it on a regular basis.

## GB ANKLE STRAPS

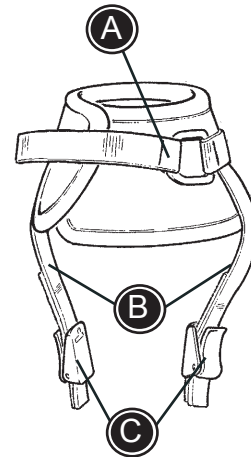
The ankle straps can be opened and closed by using the velcro or the buckle (A).

Follow the instructions below for mounting.

- \* Remove the buckles (C).
- \* Pull the straps (B) through the slides in the foot plates.
- \* Mount the buckles (C) again and make sure the straps do not slide off.



Take care that all the fixations and adjustments are placed and fitted correctly and check it on a regular basis.



## GB FOOT STRAPS

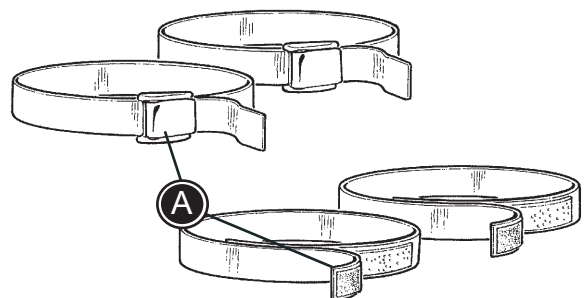
The foot straps can be opened and closed by using the velcro or the buckle (A).

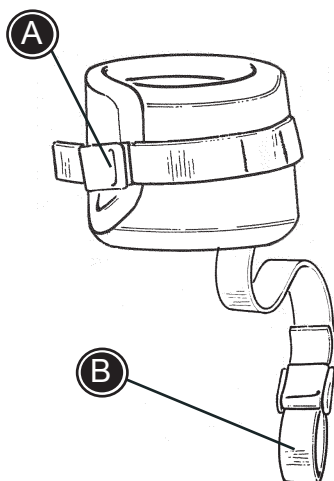
Follow the instructions below for mounting.

- \* Open the straps and pull them (A) through the slides in the foot plates.
- \* Close the straps around the users foot.



Take care that all the fixations and adjustments are placed and fitted correctly and check it on a regular basis.





## GB HAND CUFF

The hand cuff can be opened and closed by using the buckle (A).

Follow the instructions below for mounting.

- \* Mount the hand cuff around the users wrist.
- \* Mount the strap (B) around the arm rest bar.



Take care that all the fixations and adjustments are placed and fitted correctly and check it on a regular basis.

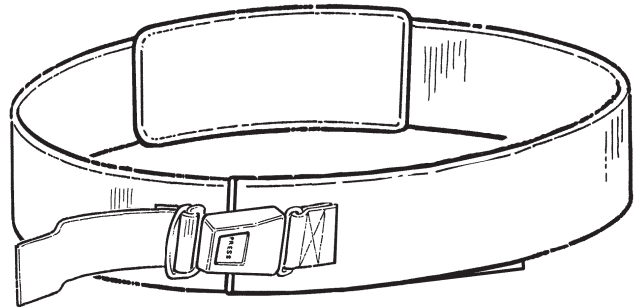


## GB TRANSPORTATION BELT

The belt goes around the persons chest and around the back of the chair. Use the velcro for closing the belt and lock with the metal lock.



Take care that all the fixations and adjustments are placed and fitted correctly and check it on a regular basis.



## GB H-BELT

The H-belt can be opened and closed by using the buckle.

Follow the instructions below, with help from page 37.

- \* Mount the shoulder straps in the belt fittings on the upper back. (A)
- \* Mount the straps in the sides in the belt fittings on the back (B).



Take care that all the fixations and adjustments are placed and fitted correctly and check it on a regular basis.

