

serval

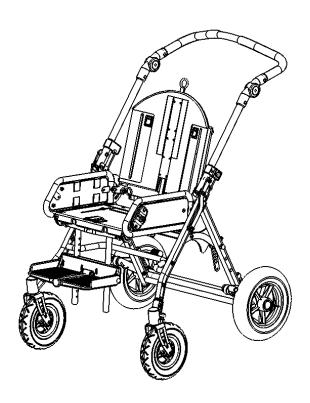
English user manual



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GB SERVAL

Congratulations on choosing the Serval as your new pushchair. It is a high quality R82 product and we are convinced that it will fully live up to your expectations.



The Serval is a unique pushchair for disabled children from ½ up to aprox 5 years of age. The Serval offers many adjustment possibilities and is therefore able to meet the individual needs of practically any child.

This manual will enable you to take full advantage of the many possibilities of the Serval.





GB) SAFETY

The Serval has erned the CE-mark. This certifies that it meets all relevant European safety requirements. Further the Serval is approved according to ISO 7176/19-2001, EN 12182. 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.



Read this manual carefully before use and keep it for future reference. Your child's safety may be affected if you do not follow the instructions in this manual.





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



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





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 product before every use.



Any load attached to the handle, for instance a full shopping net, affects the stability of the push chair.



If a child is sitting in the system, all belts and harnesses should be secured before the seat is adjusted.



This product must not be used for running or skating.



The latest version of the manual is always available online: www.R82.com





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.



In the rucksack mounted on the Serval, there is a small bag with an 4 mm Allen key. This tool is used to perform some of the adjustments described in this manual. In the rucksack there is also a pump for the tyres.

GB MAINTENANCE



Oil the swing away parts occasionally



Do not use any cleaning materials containing chlorine or methylated spirit.



Use a dry cloth to wipe and remove dirt and debris from the wheels.

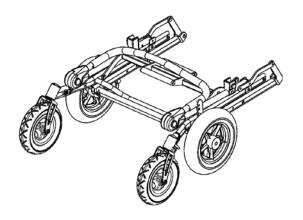


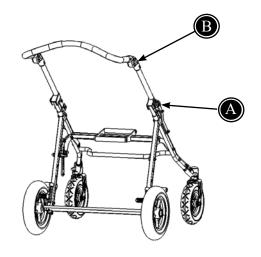
All nuts and bolts on a Serval has to be checked and tightened every 6 months to avoid unnecessary failures, especially the black Allen screws fastening the front wheels.



All other maintenance consists of replacement of major parts, which should be carried out by approved repairer.







GB SERVAL READY FOR USE

Serval is folded, when delivered, but is unfolded very easily:

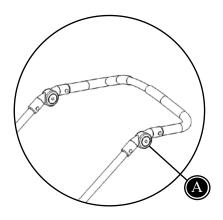
- 1) The frame is folded out by lifting the push brace. Fold out until the lock fitting (A) "clicks" into place on either side of the frame.
- 2) The push brace is adjusted by pushing in the buttons (B) in both sides of the handle and lifting the handle into the required position.

Follow the instructions on the next pages, to position the back, seat and footplate.

Serval is now ready for use.



Be aware that the lock fittings (A) are completely locked before using the pushchair.





The push brace is adjusted by pushing in the buttons (A) in both sides of the handle and lifting the handle into the required position.



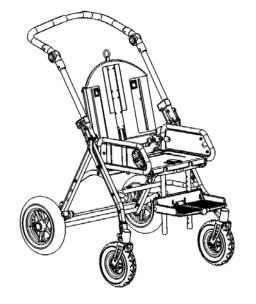
GB SERVAL WHEELS

The Serval pushchair is delivered with turnable front castor wheels and with large rear wheels. The frame can be delievered with either solid tires (rubber) or air tires.

The Serval has good suspension, which make it easy to drive, even on broken ground.

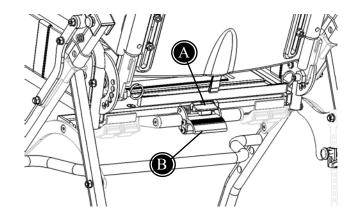


The air pressure in the tires must be 36 PSI/ 2,5 bar.

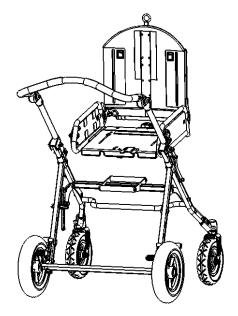


Turnable frontwheels

RB2°







GB REVERSIBLE SEAT

The Serval seat is reversible 180°. The easiest way is as follows:



Remove the child before turning the seat around.

- * Pull the handle (A) on the back, and the aluminium fitting (B) to release the seat from the frame.
- * Lift and turn the seat 180°. Fit the seat in the slots of the adapter. The seat is reversed.
- * Pull the handle (A) and click the seat into place.



Make sure, that the seat is firmly and correctly mounted.



GB) PANDA AND X:PANDA SEAT ON SERVAL FRAME

The Panda Futura and x:panda seat can be mounted on the Serval frame. This requires an interface between frame and seat.

Click the interface on to the frame (A) and ensure that safety lock (B) is engaged. If the Serval seat need to be dismounted, please see the section "Reversible seat".

Mounting a seat in the interface:

The seat is slid into in the adapter and should be pushed back until it "clicks". Then pull out the green knob and push the seat back until the green knob (C) clicks into the second safety hole. Lock with the red handle (D) on the opposite side by levering the red handle towards the rear of the frame.



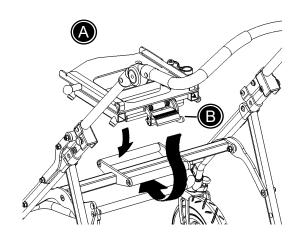
Do not use the first hole the seat is "clicking" into. This is a safety hole, that catches the seat if the handle (D) is released by mistake.

Dismounting a seat from an interface:

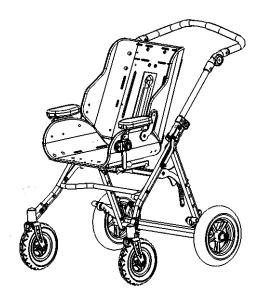
Open the red handle (D). Pull the knob (C) and hold it out and push the seat forward while supporting the seat.

Reversible Panda Futura and x:panda seat

You can reverse the seat 180° by reversing the interface. Please see earlier section "Reversible seat".









GB) (CONTINUED) PANDA AND X:PANDA SEAT ON **SERVAL FRAME**

Adjustment of the centre of gravity of the seat The interface (and then the seat) can be adjusted 10 cm forward and backward (A) to obtain the correct centre of gravity and good stability for the Serval. Adjust the interface by removing the 4 screws with 4 mm. allen key and a 10 mm. spanner. Move the interface to the wanted position and fasten the 4 screws again.

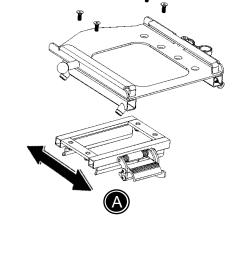


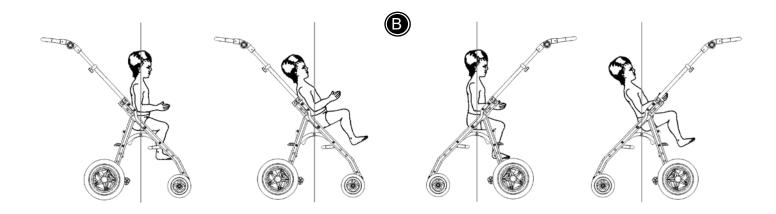
It is very important to obtain the correct centre of gravity to maintain stability and prevent the serval from tipping (B).



Make sure, that the interface and seat is firmly and correctly mounted.

G	Serval size 1	Serval size 2	
В	Panda Futura size 1+2	Panda Futura size 1+2+2½	
	x:panda size 1SM+2S	x:panda size 1+2M	







GB MOUNT A FOOT SUPPORT

Loosen the screws (A) with a 5 mm allen key and the foot support is mounted by placing the bars in the interface. Then refasten the screws (A).

For adjusting the foot support, please see section "Foot support".



GB) BACK AND SEAT ANGLING

Turn the handle (A) and pull out the security nut (B) to angle the complete seat unit. Fasten at the wanted position.



Make sure that the security nut (B) "clicks" into place after adjustment.

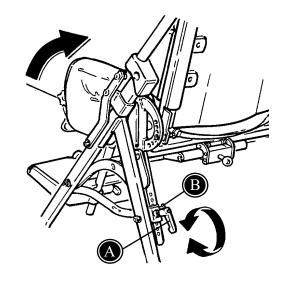
The back angles individually by pulling outwards on the strap on the back (C).

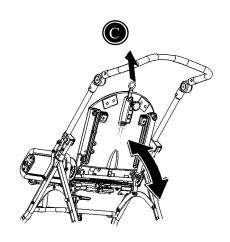


Hold onto the back to prevent it from suddenly erking when the strap is pulled.

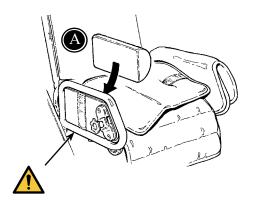


Make sure, that the back has clicked into place after adjustment.







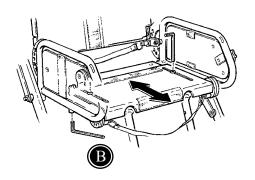




The seatwidth can be adjusted by placing an extra cushion at both sides below the seat cushion (A).



Please be careful not to get fingers caught between the side frame and the plate.





To adjust the seatdepth loosen the Allen screws (B) below the seat cushion.

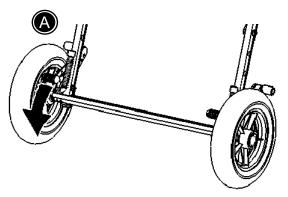
Retighten (B) when the wanted seatdepth is reached.

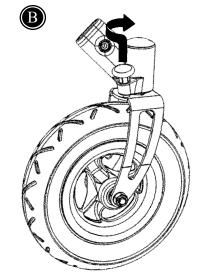


GB BRAKES AND DIRECTIONAL STABILIZER

Activate the brakes on the Serval (A).

With the directional stabilizer the wheels can be locked in the driving position (B).





GB RUCKSACK

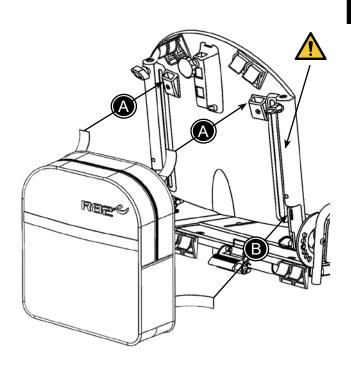
Mount the rucksack by mounting the upper straps in the fixlocks (A). Then mount the lower straps with the velcro (B).



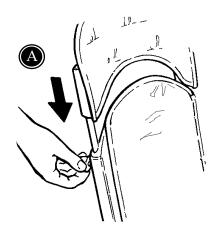
Max load for the Rucksack: 2 kg



Please be careful not to get fingers caught in the rail on the back.









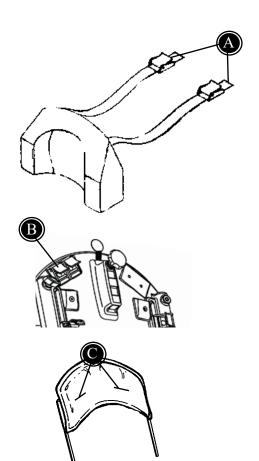
) BACK EXTENSION

The Serval can be equipped with a removable and heightadjustable back extension (A).

Tighten the fingerscrews (A).



Make sure that the back extension is securely mounted.





To mount the headrest cushion:

Without back extension:

The straps (A) are attached to the fixlocks (B) at the top back.

With back extension:

Lead the straps (A) through the slots (C) in the back and fasten in the buckle on the back.



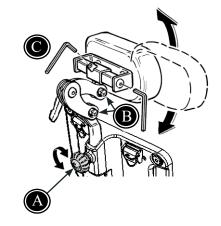
GB HEAD REST

Mounting and height adjustment: Loosen the handle (A).

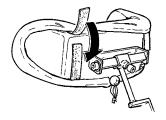
Angle adjustment: Loosen the screws (B) with a spanner.

Sideways adjustment: Loosen the screw (C).

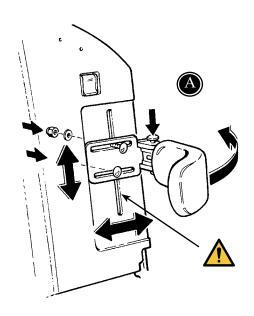
Fasten all screws at the desired position.

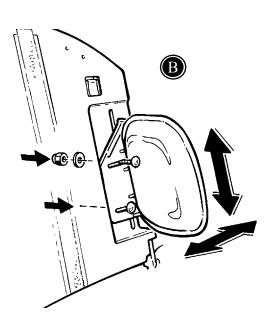


Mount the cover on the head support.









GB SIDE SUPPORTS

Remove the back cushion and mount the side supports in the slots in the back.

- A) The swing away side supports can, when mounted be adjusted both in hight and width. To ease the placement of the child, swing the side supports away.
- B) The fixed side supports can, when mounted be adjusted both in hight and width.



We recommend to oil the swing away side supports occationally.



Please be careful not to get fingers caught in the rail on the back.



GB FOLDING TOP

Dismount the back extention, if any.

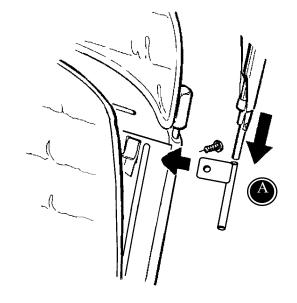
Place the fittings for the folding top in the back of the chair and tightened (A).

Push the folding top into the fittings.

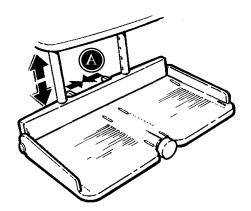
Now mount the back extention in the same fittings again.

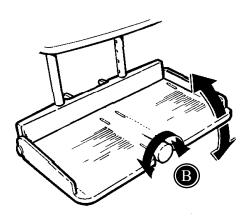


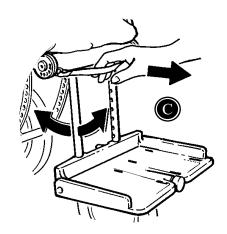
Do not grap hold of the folding top, when lifting the Serval.













GB) FOOTREST

The footrest should support the child and prevent the child from sliding out of the chair.



Do not use the footrest as treadle.

Squeeze the two handles (A) together and adjust the height.

Turn the handle (B) to angle the footplate.

To angle the footrest bar, pull out the black strap below the seat (C).



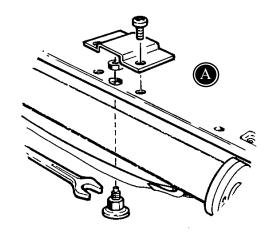
We recommend to oil the footrest regularly.

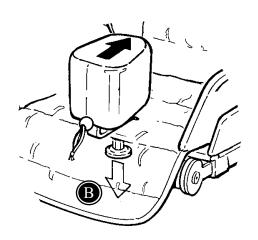


GB POMMEL

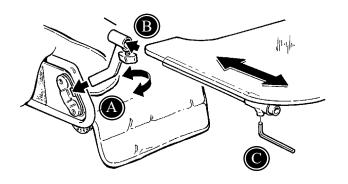
Mount the fittings to the seat under the seat cushion (A).

Pull downwards on the handle (B) and lead the abduction block through the hole in the cushion, into the fittings.











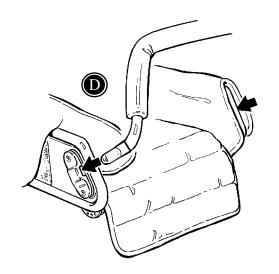
Mount the fittings on the sides and fasten with the finger screws (A).

Mount the tray afterwards (B).

Use the Allen key to loosen below the plate and the tray is depthadjustable (C).



Max. weight on the tray is 5 kg.





GB) HAND BRACE

Place the hand brace in the fittings on both sides and fasten with the finger screws (D).



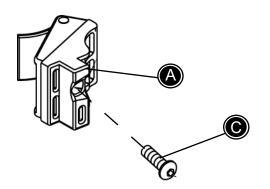
GB MOUNTING ADJUSTABLE FIXLOCKS

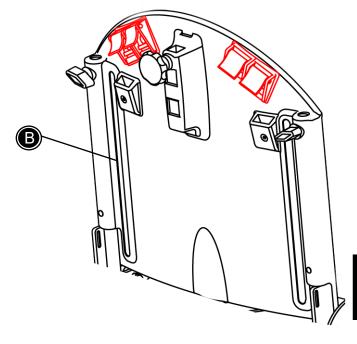
- * Remove the back cushion.
- * Place the fix-lock (A) in the slot (B) at the rear of the back.

Note that the fix-lock has been cut our to fit the back.

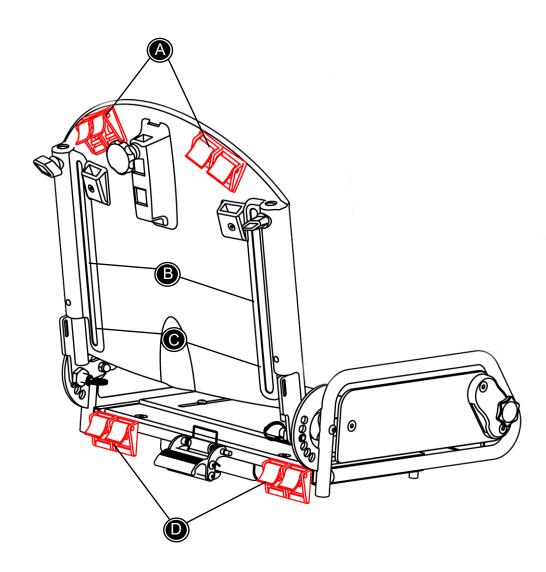
* Fit the screw (C) in the fix-lock from the inside of the back.

The fix-lock can be adjusted up and down by loosening the screw (C).









Use this drawing together with the descriptions on the following pages.



GB VEST AND CROSS VEST

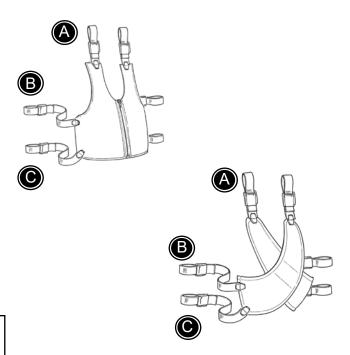
Mount the fixlocks in the back.

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

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



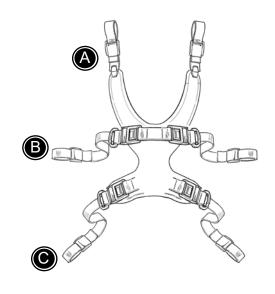
GB STERNUM BELT

Mount the fixlocks in the back.

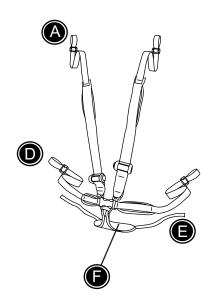
The sternum belt can be opened and closed by using the buckles.

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











GB) 5-POINT BELT

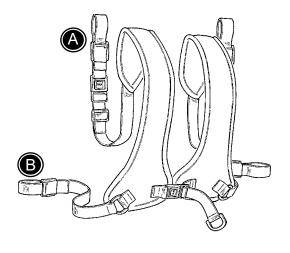
Mount the fixlocks in the back.

The 5-point belt can be opened and closed by using the buckles.

- Mount the straps (E) in the fix-locks in the seat
- Place the user in the chair, sitting on the "triangle" (F).
- Lead the straps in the sides (D) through the slots in the seat and fit to the fix-locks under the seat.
- The shoulder straps are mounted in the fixlocks on the upper back (A).



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





(GB) CHEST BELT

Mount the fixlocks in the back.

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

- 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).



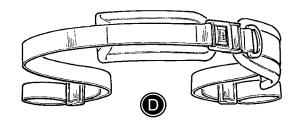


GB HIP BELT

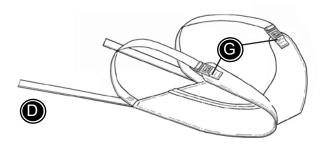
The hip belt can be opened and closed by using the buckles.

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







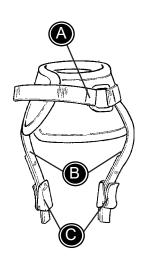


GB PELVIS HARNESS

- * 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.







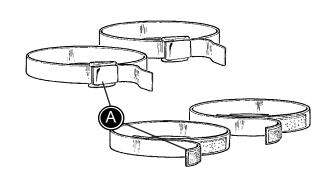
The foot straps can be opened and closed by using the velcro or the buckle (A).

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.



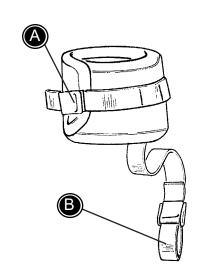
GB HAND CUFF

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

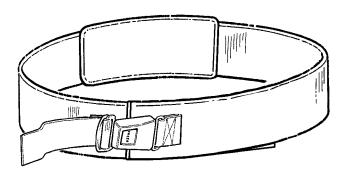
Follow the instructions below for mounting.

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









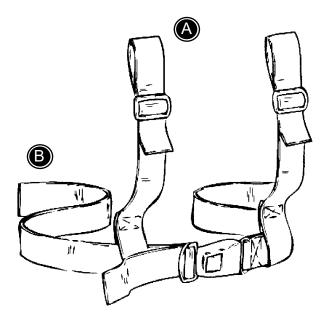


TRANSPORTATION BELT

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.





H-BELT

Mount the fixlocks in the back.

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

- 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).





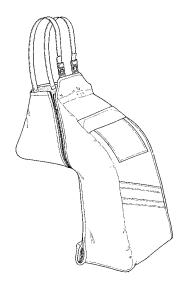
GB THERMO BAG

- * Place the thermo bag in the chair.
- * Unzip the bag in the sides and place the user in it.
- * Zip it again.

There is velcro slides in the sides of the bag, which make it possible also to use a hip belt.



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



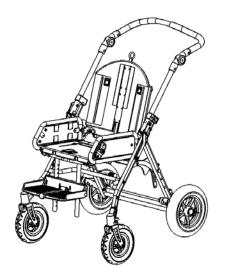
GB) RAIN CAPE WITH HOOD

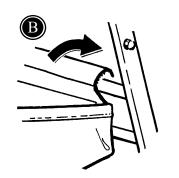
The raincape goes over the back of the seat. Around the users body and under the footrest. In this way it also covers the chair.











GB) SHOPPING BASKET

- A) Place the shopping on the frame under the seat.
- B) Attach the shopping basket to the frame by fastening with velcro around the crossbar.



GB SHOPPING NET

Attach the shopping net to the push brace frame by fastening the rubber fittings.



Any load attached to the push brace affects the stability of the push chair.





GB FOLDING THE SERVAL

The Serval is folded/unfolded very easily and therefore easy to bring anywhere.

There are two ways to fold the Serval:

- 1) with the seat on the frame
- 2) the seat is dismounted before folding

With the seat on the frame:

- A) Pull out the black strap and tip the footsupport into a horizontal position.
- B) Fold the footplate forwards to a horizontal position.
- C) Pull out the black strap on the backside and the back can be folded.
- D) Press the buttons at both sides of the handle and fold.

With the seat dismounted:

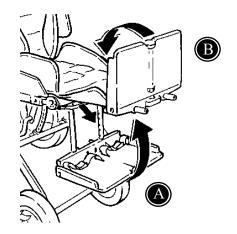
To dismount the seat, use the handle on the back of the chair. Then follow step (D).

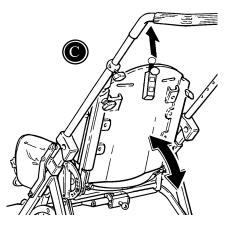


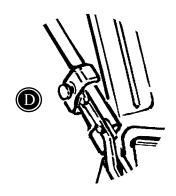
When folding the Serval, please be careful not to get fingers caught between the fitting and the frame (F).

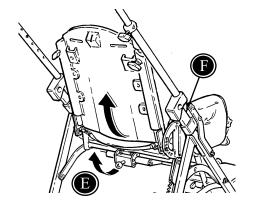


To fold the Serval completely, remove folding top, tray, shopping basket and hand brace, if any.













The Serval is approved for transporting children in motor vehicles, when the wheelchair is placed in forward-facing position.

The Serval is not delivered with hip-belt needed to secure the user in the pushchair.



The approval is not valid on special made chairs.



The child should transfer to the vehicle seat and use the vehicle-installed restraint system whenever it is feasible.



The chair is approved according to ISO 7176/19-2001 and 16840-4:2009.



The wheelchair has been dynamically tested according to ANSI/RESNA WC/Vol. 1-1998, section 6.4.1, litra c.



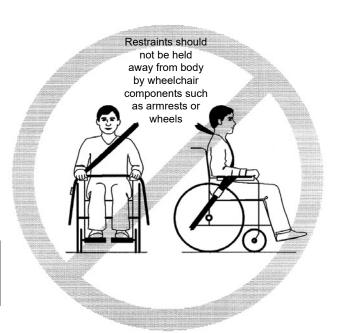
Use an approved 3-point belt in the wheelchair. Restraints should not be held away from the body by wheelchair components such as armrests or wheels.



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



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



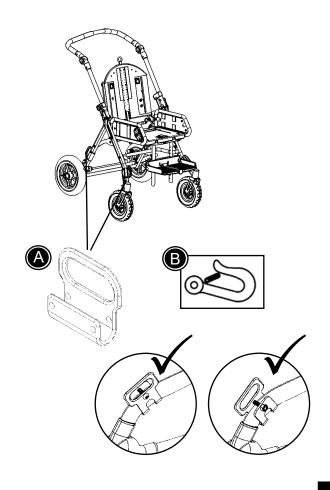




Mounting transport fittings:

You need to mount 4 transport fittings: 2 in both sides of the frame. The transport fittings (A) are equipped with a secure symbol (B).

 Remove the plastic plugs form the pre drilled holes in the frame. Mount the transport fittings (A) with nuts, bolts and a 4 mm allen key.



Back angling:

* Angle the back of Serval by pulling lightly in the strap back on the chair (C).



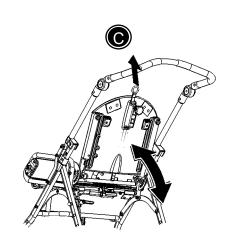
Hold onto the back to prevent it from suddenly erking when the strap is pulled.



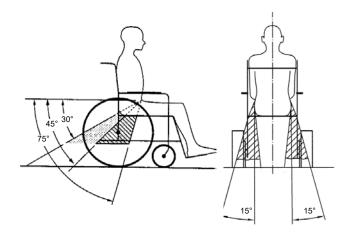
Do not angle the back more than 30° to the back, unless it is absolutely necessary.



Serval is approved for transportation in vehicles. Please look at MEASURES in the back of this manual for the max load. indication.







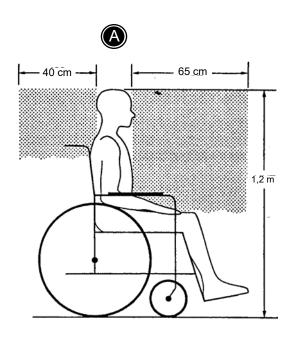


SECURE THE SERVAL IN THE VEHICLE

- Mount the 4-point strap-type tiedown system in the vehicle. (Follow the manufacture instructions)
- * Secure the pushchair to the vehicle, using the4-point strap-type tiedown system. Use either a hook or a strap in the fitting.



Use a 4-point strap-type tiedown system approved according to ISO 10542-2 and SAE J2249.



Position inside vehicle:

- * Remove all accessories from the pushchair before transportation.
- * Place the child in forward-facing position.

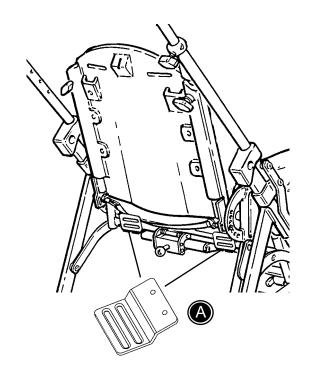


Be aware of the recommended safety zone (A) when moving children in vehicles.



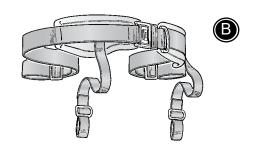
GB) SECURE THE CHILD IN THE SERVAL

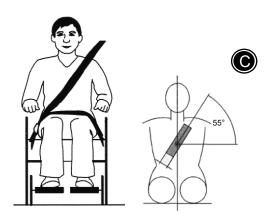
- * Mount the two fittings (A), for the approved hip-belt (B), in the pre drilled holes on the back of the Serval.
- Mount the approved hip-belt (B) in the fittings
 (A) and fasten the user in the puchchair.
- * Use the 3-point belt as shown on drawing (C) to secure the user. The belt restraints should be adjusted as tightly as possible, consistent with user comfort. Further the belt webbing should not be twisted when in use. The angle on the 3-point belt has to be according to drawing (C).



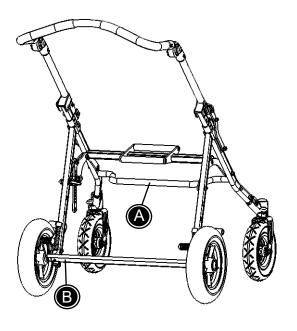


Use a hip-belt and a 3-point belt approved according to ISO 10542-1 or SAE J2249.









GB PRODUCT IDENTIFICATION

A) Serial number

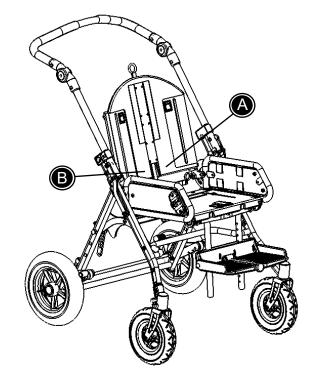
The label is placed in the middle, on the throug-going bar, below the seat.

B) Manufacturer

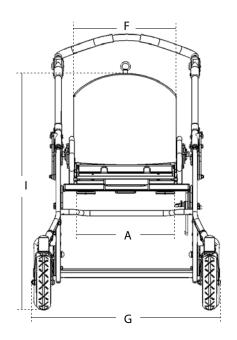
The label is placed to the left, on the througgoing bar on the frame.

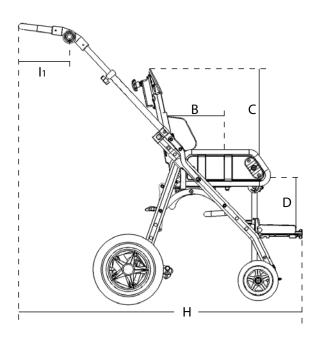












GB MEASUREMENTS

	Size 1	Size 2
Seat width, max. (A)	280 mm (11")	330 mm (12¾")
Seat depth (B)	180-280 mm (7-11")	250-340 mm (9¾-13 ¼")
Back height (C)	340 mm (13¼")	400 mm (15½")
Lower leg length (D)	100-310 mm (4-12")	100 - 310 mm (4-12")
Back width (F)	280 mm (11")	330 mm (12¾")
Width (G)	600 mm (23½")	650 mm (25½")
Length (H)	680 mm (26 ½")	680 mm (26 ½")
Height (I)	890 mm (34¾")	890 mm (34¾")
Length, push handle (I1)	210 mm (8½")	210 mm (8½")
Length, folded	800 mm (31 ¼")	800 mm (31 ¼")
Height, folded	440 mm (17¼")	440 mm (17¼")
Weight, frame	11 kg	12 kg
Weight, seat	6,5 kg	7,5 kg
Max. load / user weight	35 kg	50 kg
Max. load / user weight at transportation	35 kg	43 kg
Angles	Footrest bar	90°- 42°
	Back	23°- 65°
	Seat	-19°- 31°

Further information regarding max. load/user weight and transportation: www.R82.com/files/archive/Publications/Pdf/Chart_transport.pdf



GB TECHNICAL DATA

Frame: Chrome or powder lacquered steel

Plastic parts: Fibre glass strengthened polyprolene

Cushion: Fire-resistant foam

Fabric: Fire-resistant microfibre



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www.R82.com



Please find your distributor on www.R82.com



GB) STAIN REMOVAL GUIDE

The Serval cushion is removable and can be washed at max. 30°. It is important to keep the frame clean to maintain the validity of the chair.

BLOOD

Wasoff blood with cold water. If this fails to help, add a neutral kitchen detergent.

INK

Remove as much as possible with absorbent paper. Clean with 20% denatured alcohol and wash with water to which a neutral kitchen detergent has been added.

CHOCOLATE AND CONFETIONARY

Dab with lukewarm water

GRASS AND VEGETABLES

Dab with lukewarm water with or without a neutral kitchen detergent.

COFFEE, TEA AND MILK

Remove as much as possible with absorbent paper. Dab with water containing a neutral kitchen detergent.

BALLPOINT PEN AND COSMETICS

Clean with alcohol

NAIL POLISH

Dab with nail polish remover. Use acetone if this fails to help.

OIL AND GREASE

First sprinkle talcum on the spot and leave. Then brush away. Finally, dab carefully with a cloth mostened with benzen or alcohol.

SHOE POLISH

Dab carefully with a cloth moistened with benzene or alcohol.

JAM, SYRUP, FRUIT AND JUICE

First remove as much as possible with a spoon. Then dab with lukewarm water.

WINE AND SPIRITS

First remove as much as possible with absorbent paper. Then dab with water containing a neutral kitchen detergent. Finally, rinse with dilutet denatured alcohol.

PAINT. OILBASED

First clean with turpentine. Then dab with water containing a neutral kitchen detergent. Seek expert advice if the spot is old.

PAINT, WATERBASED

Dab with cold water containing a neutral kitchen detergent. Seek expert advice if the spot is old.

