The Chailey Rollercoaster Head Support

INSTALLATION and USER GUIDELINES CE

(Edition 9) Jan 2018

Designed by Chailey

Manufactured by RMS Ltd

chailey heritage clinical services

RMS
REHABILITATION MANUFACTURING SERVICES

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INTRODUCTION

The Rollercoaster head support, has been designed to give maximum occipital support, together with as much lateral support as possible without the user being able to get their head trapped under or behind the headrest.

This booklet provides guidance on the installation, adjustment, use and care of the Rollercoaster head support, please read carefully and retain for future reference.

The Chailey Rollercoaster Head Support

IMPORTANT NOTES

- The Rollercoaster head support has NOT been designed for use during transportation of the user in a motor vehicle.
  Please refer to transportation section on page 10.
- To avoid damage to the Rollercoaster head support when being transported as luggage, always ensure it is stowed away securely.
- **The Rollercoaster head support should be installed and any initial or subsequent adjustments made, by a suitably qualified person, such as your Therapist or Rehabilitation Engineer.**

STAGE ONE

Mounting Installation

(**A**) and (**B**) type mountings.

Possible tools required:-

Power drill - 6.5mm dia. drill bit and countersink bit.

3, 4, 5 & 6mm hexagon keys 13mm spanner

The Rollercoaster head support mounting bracket/s, type (**A**) Fig.1 and Type (**B**) Fig.2, must be securely attached in a suitable position, to the rear face of a solid backrest.

Two sizes of the Rollercoaster head support are available, with the single stem type (**A**) version, Fig.1, normally being used on the smaller size, although type (**A**) can be supplied with a double stem as Fig.2 if required. All adjustments will be the same for both sizes.

Solid Backrest Mounting

- Using the mounting bracket (**a**) as a template, drill two 6.5mm dia. holes through the backrest panel, countersinking the holes on the forward face of the panel to suit the M6 screws supplied. Attach the mounting bracket (**a**) to the rear of the backrest panel with the M6x16 screws and special nuts supplied. Tighten screws sufficient to prevent any movement.

Fig. 1

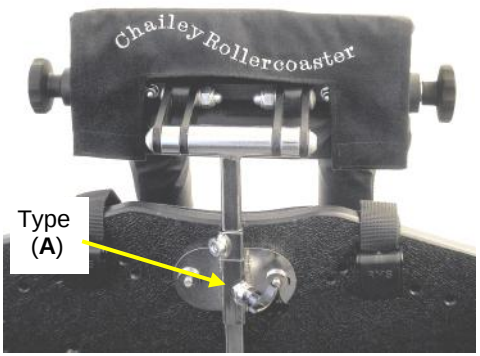
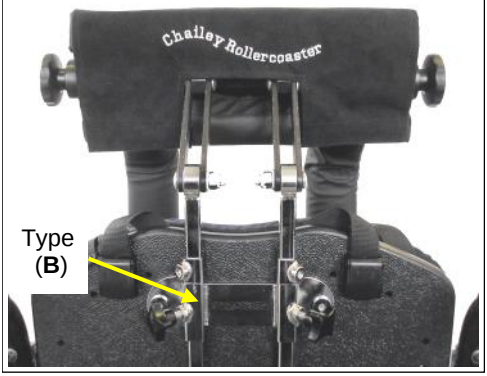


Fig. 2



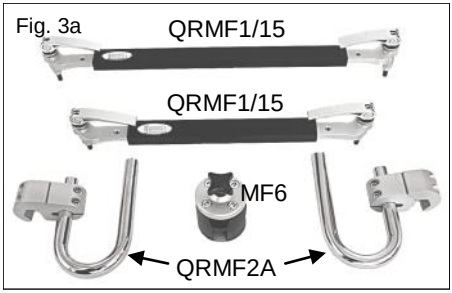
Backrest Bracing Bar Mounting

The method of attachment to a bracing bar will depend on individual wheelchair frames, or seat unit specifications and dimensions.

The mounting plates as shown above are **NOT** suitable for use with a round bracing bar.

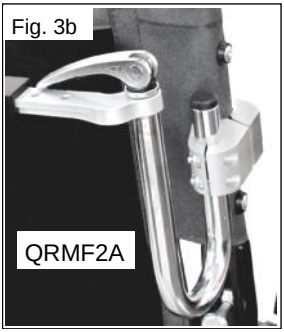
IF IN DOUBT, please call the RMS Technical Help-line on 01795 477280 for assistance.

Using the Rollercoaster in conjunction with the RMS Quick Release Mounting Frame - (QRMF). (**C**) and (**D**) type mountings.



For wheelchair applications where a conventional backrest canvas is being utilised, it will be necessary to mount the Rollercoaster head support onto an RMS QRMF Figs.3a & 3b.

The QRMF can be easily installed onto most backrest frames, including those with a wrap-around style backrest canvas Fig.3b.
NOTE: The QRMF can also be used as a secure fixing for the attachment of upper harness straps and is supplied complete with tri-slot mountings.



Available in two sizes, the QRMF1/10 is suitable for wheelchairs with backrest frame centres ranging from 250mm (10") up to 355mm (14") with the QRMF1/15 being suitable for wheelchairs with backrest frame centres from 380mm (15") up to 510mm (20").

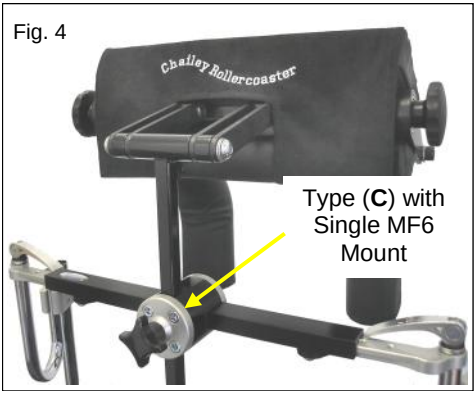


Fig.4, shows a typical mounting system for the single stem Rollercoaster, using one MF6 headrest stem receiver on the QRMF.

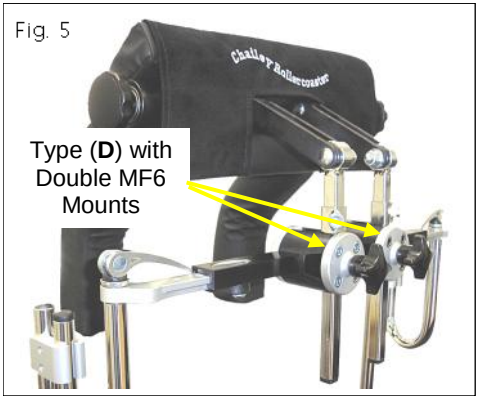


Fig.5, shows the twin stem Rollercoaster, mounted on a QRMF, using <u>two</u> MF6 headrest stem receivers.

The QRMF complete with MF6 receiver/s should be installed as detailed in the instructions supplied with that device.

STAGE TWO

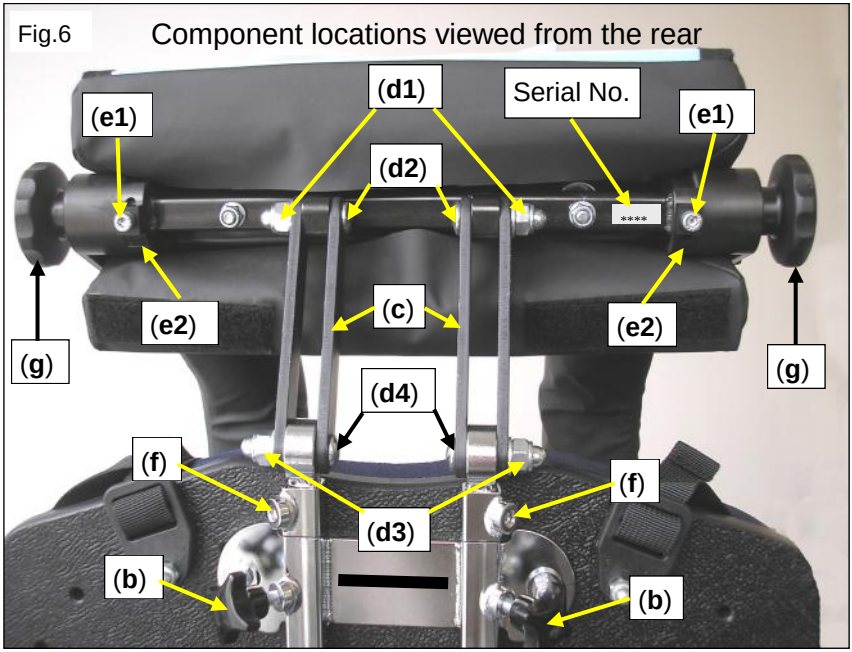
ADJUSTING the Rollercoaster
(with the user seated)

- With the appropriate mounting installed, raise both support arms as in Fig.7 and insert the head support stem/s into the receiver socket/s. Temporarily secure at approximate height using thumb screw/s (**b**). Fig.6. and assess the occipital pad depth position required.

To offer a wide range of depth adjustment, three lengths of headrest links (**c**) Fig.6, are available. The standard length, as shown in Fig.6, having 75mm hole centres. Shorter links have 50mm and longer links 100mm hole centres.
Should it be necessary to change the link's, it is recommended that the Rollercoaster is removed from the wheelchair to avoid possible injury to the user while carrying out this operation.

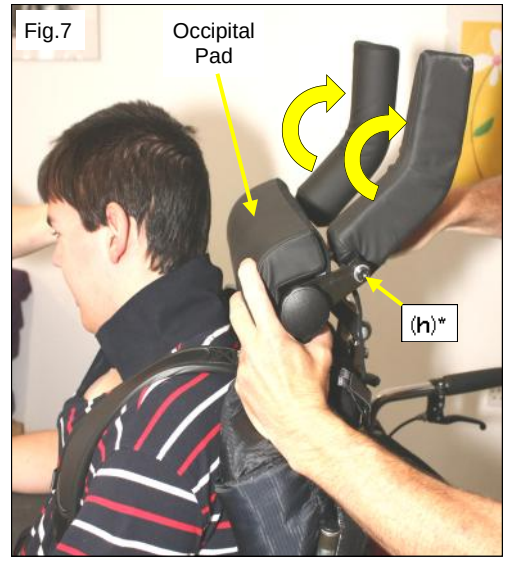
- Lift the Velcro attached fabric covering panel at the rear of the head support, to expose the components as Fig.6.
- Loosen and remove domed Nylock nuts & washers (**d1**) and remove pivot bolts (**d2**). Lift head support clear and temporarily store. Loosen and remove domed Nylock nuts & washers (**d3**) and remove pivot bolts (**d4**). Install the alternative links and head support in the reverse order of the above, ensuring that the positioning lug on bolts (**d2**) and (**d4**) engage in their locating slots in the links. Tighten nuts at this stage, sufficient for the pivot joints to maintain their position, but still allow some movement.
- Re-install head support into mounting bracket.

Fig.6 Component locations viewed from the rear



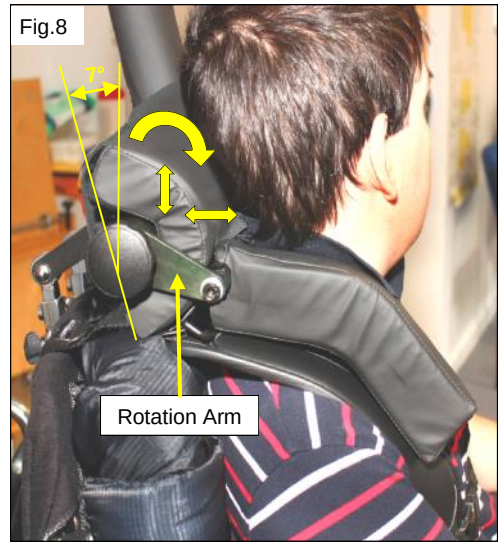
With the head support link pivot points still moveable and both support arms fully raised Fig.7, the occipital pad depth and angle can now be set. The correct occipital pad position, can be achieved by using a combination of adjustments.

- Position the occipital pad to achieve best possible comfort and support. Retighten all nuts sufficiently to prevent any movement. Re-attach fabric covering panel.



- The overall head support height, can now be set by loosening thumb screws (**b**) Fig.6, set to the required position and retighten thumb screws.

- To ensure the head support is able to be returned to the same height position each time after removal, the height positioning collar/s (**f**) Fig.6, should be secured in place on each head support stem, by tightening each grub screw, whilst the collars are in contact with the mounting bracket receiver tubes.



- Fig.8 gives an example of how the head support may be positioned when correctly adjusted, however, this can vary according to individual requirements.

- The lateral support arm on the side where the user needs most support, should now be adjusted. With the support arm still in the raised position Fig.7 and to avoid possible discomfort for the user, loosen screw (**h***) Fig.7

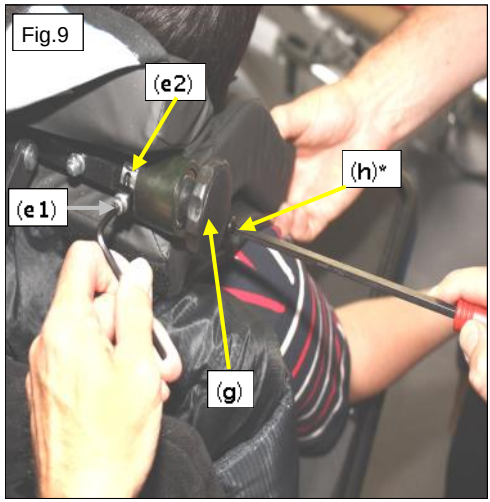
*** The Left-hand side screw (h*) has a Left-hand thread.**

(Left side relates to the user's left when seated, forward facing, in their wheelchair).

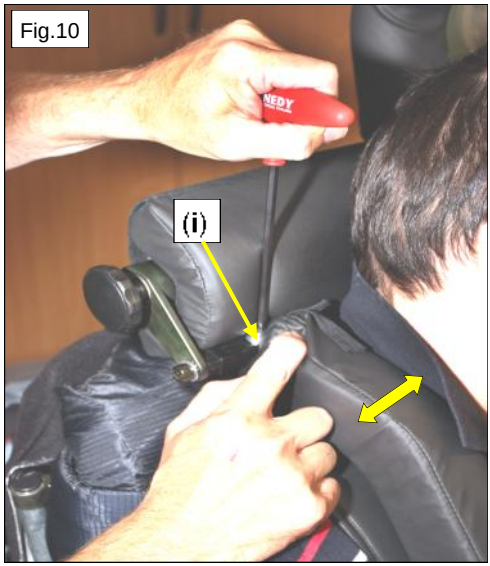
[Cont]

- Now loosen the hand-wheel (**g**) Fig.9 and carefully fold this support arm over to it's lowered, support position.
  It is recommended that the rotation arm Fig.6, is set slightly angled downwards, whilst a comfort clearance of approximately one finger thickness or 10mm, is maintained between the support arm pad and the user's body. Re-tighten hand-wheel (**g**) and screw (**h***).

- The amount of downward travel on each lateral support arm must be limited, to maintain the clearance as above. Adjustment is made by loosening screw (**e1**), positioning lateral Support Arms as required, then, with lock plate (**e2**) against the respective stop, retighten screw (**e1**) sufficiently to prevent movement.



- Sideways adjustment of the lateral support arms can now be made by loosening screw (**i**) Fig.10.
  (It may be necessary to loosen the pull-tight cord retaining the padding to gain access to this screw)
  Slide the lateral support arm towards or away from the user to achieve the best supporting position.
  Re-tighten screw (**i**) sufficiently to prevent any movement.
  Re-tighten pull-tight cord if required



- Repeat the lateral support arm positioning and adjustment operations, as necessary for the opposite side.

NOTE:
For some users, only one lateral support arm may be required Figs.11 and 12. This may be for limited periods only, or permanently.
The other arm can either be raised to vertical and locked when not required for certain times, or completely removed if not required at all.


Fig.11


Fig.12

NOTE:
It is recommended that the initial use of the **Rollercoaster** head support, be monitored for a suitable period, to ensure correct support and user comfort. Any subsequent adjustments should be made by a suitably qualified person, such as your therapist or rehabilitation engineer.

ENSURE ALL ADJUSTABLE FEATURES ARE CORRECTLY TIGHTENED AFTER COMPLETING ANY ADJUSTMENTS.

USER/CARER INSTRUCTIONS

- To enable the user to safely enter and exit the wheelchair, both lateral support arms should be fully raised by loosening the hand-wheels (**g**) Fig.4. Lightly re-tighten hand-wheels to maintain the raised arm positions during transfers.
- After entering the wheelchair, ensure the User is correctly seated, with any positioning straps or chest harness fastened and correctly adjusted.
- **NEVER** use the **Rollercoaster** head support to manoeuvre the wheelchair.
- **DO NOT** suspend shopping bags or other objects from the **Rollercoaster** head support.
- When removed from the wheelchair, the **Rollercoaster** head support should be stored safely to avoid impact which could affect the initial adjustment settings.

USE IN TRANSPORTATION

IMPORTANT NOTES: Although not intended for use as a supportive device during transportation in a motor vehicle, the postural support benefits provided by this device, may outweigh any risks involved.
An appropriate risk assessment should therefore be carried out by a suitably qualified person, taking into account the following points:-

- The **Rollercoaster** head support must be correctly adjusted to suit the requirements of the individual user and that all components are secure before starting every journey.
- It is essential that any transportation occupant restraints, **DO NOT** come into contact with the **Rollercoaster** head support during transportation. Therefore, the diagonal occupant restraints, must be routed between the **Rollercoaster** head support and the wheelchair occupant.
- The **Rollercoaster** head support may be supplied with an appropriate label relating to the importance of correct occupant restraint routing.

CLEANING

- The **Rollercoaster** head support covers may be wiped clean with damp cloth or sponge using a mild detergent.
- Extensive contamination may require fitment of replacement parts. (See maintenance section below)

MAINTENANCE

The **Rollercoaster** head support should require very little maintenance during it's period of service, and is fully recyclable when required.

- It is recommended that the **Rollercoaster** head support, is checked at three monthly intervals for wear and security of mountings.
- Worn or damaged components, including upholstery, should always be replaced as soon as possible to avoid potential injury to the user.

Replacement parts are available direct from the manufacturer:-

RMS
REHABILITATION MANUFACTURING SERVICES

Thompson House
Unit 10 Styles Close, Sittingbourne, Kent, ME10 3BF
Tel: 01795 477280 Fax: 01795 229692
E-mail address: sales@rms-kent.co.uk
www.ineedawheelchair.co.uk

The Chailey Rollercoaster Head Support

chailey heritage clinical services

www.SouthDowns.NHS.UK/Chailey

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