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The RMS QR Oxygen Cylinder Carrier

(Covering Part Numbers QR-OX-C and QR-OX-C-Twin)

Suitable for carrying O2 Cylinders with Diameter of 95mm – 120mm and Height 300mm — 500mm

QR-OX-C Assemble Kit comprises of :-
1 x Std. O2 Cylinder Carrier Frame.
1 x Pair QRMF2a Oxy. Upper Mounting Brackets c/w Clamps.
Plus: 1 x O2 Cylinder rear Retaining Panel.
1 x Set of Stabilising Straps.

QR-OX-C-Twin Assemble Kit comprises of :-
1 x Std. O2 Cylinder Carrier Frame.
1 x Pair QRMF2a Oxy. Upper Mounting Brackets c/w Clamps.
Plus: 2 x O2 Cylinder rear Retaining Panels.
2 x Sets of Stabilising Straps.

QR-OX-C

Fig.1

IMPORTANT NOTES:

- The initial installation of this device should be carried out by a suitably qualified person.
- The QR O2 Cylinder Carrier, when correctly fitted with RMS Mounting Brackets and Clamps, is suitable for attachment to wheelchairs, having round backrest frame tubes of between 19mm (3/4") and 25mm (1") outside diameter (Fig.3).
- The **QR-OX-C** device is intended to safely carry one of the above sized O2 Cylinders on the wheelchair during normal use, with the option of being able to remove either the cylinder on its own or the complete carrier, leaving the receiver mounting brackets and stabiliser straps attached to the wheelchair.
- **The QR-OX-C-Twin** device offers the same advantages as the QR-OX-C, but designed to carry two O2 Cylinders on the same frame.

QR-OX-C-Twin

Fig.2

- As the attachment of these devices complete with their fully charged O2 Cylinders, could add up to apprx. 6Kg for a single cylinder and up to apprx. 12Kg for twin cylinders, to the rear of a wheelchair, it is essential that an appropriate stability test be carried out by a suitably qualified person, both with the user seated and as an unoccupied wheelchair.
- Suitable Anti-tip devices MUST always be engaged when the Carrier and Cylinder/s are in place on the wheelchair.
- On wheelchairs fitted with pneumatic tyres, the pressures may need to be adjusted to cope with the added weight.
- The RMS QR O2 Cylinder Carriers are classed as an accessory to a medical device and as such, have NOT been included in any frontal impact testing to ISO 7176-19. It is therefore recommended that, wherever possible, the Carrier, together with the O2 Cylinder/s, be removed from the wheelchair during transportation in a motor vehicle and securely stored for the duration of the journey. An appropriate risk assessment should be carried out in cases where this is not possible.

FITTING:

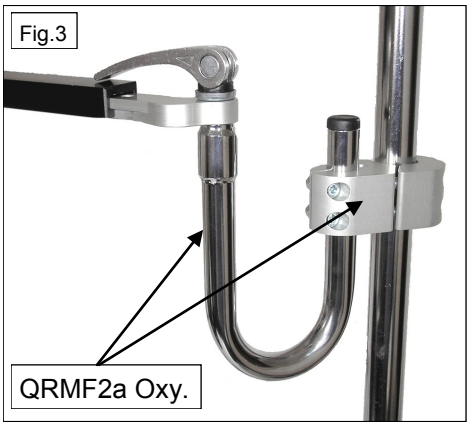
Tools required:- 3, 4 and 5mm Hexagon Keys.

NOTES: RMS QR O2 Cylinder Carriers are supplied as standard, with the versatile QRMF2a Oxy. type Mounting Brackets and Clamps (Fig.3). In view of the wide range of wheelchairs and large number of backrest options currently available, the new QRMF2aOxy. type Mountings have been developed to enable the carrier to be attached to wheelchair backrest frames, by either clamping directly around suitably exposed areas of round frame tube from 19mm to 25mm diameter, or where a "wrap-around" type backrest canvas is being used, by clamping around the backrest frames and canvas together.

Suitable mounting positions should therefore be located on the backrest frames to attach the QRMF2aOxy Mounting Clamps and support brackets Fig.3.

NOTE: To assist with overall stability, the Carrier assembly should be installed as low as possible, with the QRMF2aOxy Support Brackets fitted at equal heights and positions on each side.

Fig.3



- To install the QRMF2aOxy Clamps, slacken screws (**b**) Fig.4, sufficient to enable the Clamps to be assembled around the backrest frame, either directly on to the frame tube or over the "wrap-around" backrest canvas.
  Position Clamps pointing rearwards and slightly inwards, then retighten screws just sufficient to maintain the Clamp's position.

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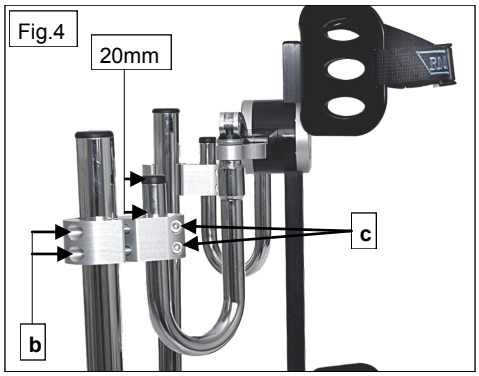
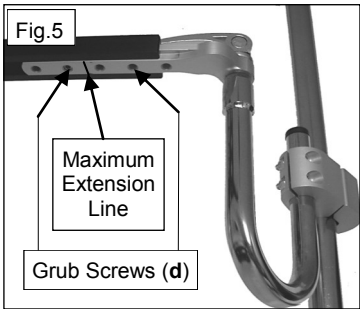
FITTING Cont.

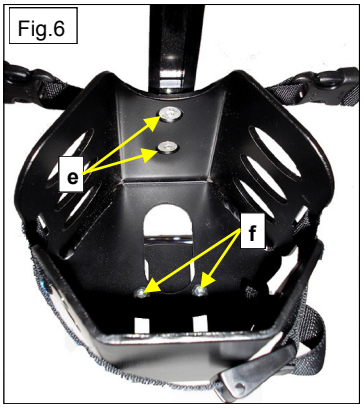


- Position both "U" shaped Receiver Brackets within their Clamps at equal heights and with at least 20mm protruding through the Clamps and in line with the Clamps towards the rear. Tighten clamping screws (**c**) Fig.4, sufficient to maintain their position.
- Before proceeding further, slacken all four side bracket locking Grub Screws (**d**) Fig.5, to allow the side brackets to slide in or out of the Carrier Cross Frame, when locating into the Support Brackets.
  NOTE: The max. extension lines MUST NOT exceed the outer end of the Cross Frame, (Fig.5).
- When offering-up the Carrier assembly, ensure both cam-locking levers are in the raised "un-locked" position before attempting to insert the locking bushes into the "U" Brackets.

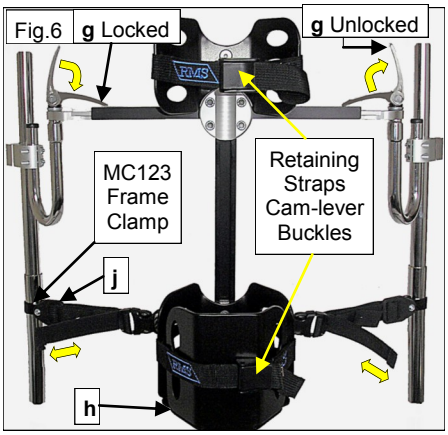


- With the Carrier supported unlocked on the "U" Mounting Brackets, it may be necessary to centralise the Carrier with the backrest frame. This may involve slightly moving the Support Clamps, Support Brackets or Cross Frame positions on the Side Brackets, before fully tightening all locking Grub Screws (**d**) Fig.5.
- After completing any re-alignment adjustments, fold both cam-locking levers (**g**) Fig.7, over to the locked position before fully tightening all clamping screws (**b**) and (**c**) Fig.3 and Grub Screws (**d**) Fig.5. All screws should be tightened just sufficient to prevent any movement.

INITIAL INSTALLATION of the O2 CYLINDER/S into the CARRIER



- Slacken screws (**f**) Fig.6, to enable the lower rear Support Panel/s (h) to move on the Carrier Base Plate and release both upper and lower cylinder retaining strap buckles, Fig.7, by lifting the strap cam-levers. (It will not be necessary to completely separate the straps).
- Install the O2 Cylinder/s downwards into place on the Carrier, with the valve access at the top, facing the rear and check the height of the Cylinder/s within the Carrier. If the valve area is impeded by the upper Support Panel/s, it is possible to raise the lower Support Panel/s. If adjustment is required, remove the Cylinder/s, then slacken screws (**e**) Fig.6 and raise the Panel/s to the required height, then re-secure screws (**e**). Re-insert the Cylinder/s.
- Slide the rear Support Panel/s forwards against the cylinder/s, then carefully remove the Cylinder/s again. This is necessary as Cylinder diameters vary according to make and model and to gain access to re-tighten the Rear Panel retaining screws (**f**) Fig.6.
- Re-insert the cylinder/s and tighten the upper retaining strap/s against the Cylinder/s by pulling the free end through the buckle until tight then fold the strap cam-lever fully over to secure. Tighten the lower retaining strap/s around the rear Support Panel/s and secure as above.



STABILISER STRAPS

- Locate a suitable position on the lower backrest or wheelchair frame, to attach the plastic MC123 frame clamps as Fig.6. Spacers are included in the kit, to allow the clamps to be attached to round tube frames of 19—25mm.
- Attach the tri-slot strap mounting plate (**j**) Fig.6, of each stabiliser strap, to the MC 123 clamps but do not fully tighten at this stage. Connect the other end of each stabiliser strap, to the strap already attached to the Carrier, via their buckles.
- Tension each strap by pulling the free end just sufficient to remove any slack. Fully tighten both MC123 clamps sufficient to prevent any movement.

REMOVAL of the O2 CYLINDER/S, is by slackening the upper retaining strap/s and lifting the Cylinder/s clear.

REMOVAL of the O2 CYLINDER/S complete with CARRIER can be done by disconnecting the stabiliser straps at their buckles, then raising both cam-locking levers, (**g**) Fig.7, to the vertical position and lifting the Carrier complete with Cylinder/s clear of the wheelchair.

IMPORTANT NOTE: Security of the Carrier should be checked on a regular basis.

WARNINGS: THERE IS A SERIOUS RISK OF FIRE IF SUBSTANCES SUCH AS DIRT, OIL, GREASE OR HAND CREAM ARE ALLOWED TO CONTAMINATE OXYGEN SUPPLY COONECTIONS.

These instructions relate to the installation of the O2 Cylinder Carrier only and are not intended to offer advice or instruction on the connection and use of the Oxygen Supply. Users and Carers should therefore adhere strictly to the instructions given by any professional persons prescribing the Oxygen supply and associated apparatus. This Carrier is not intended for use as an independent upright support stand for the O2 Cylinder/s when removed from the wheelchair.

Should you require further information on this, or any other product in the RMS Ltd range, please contact our Technical Help-line on 01795 477280.