

## The RMS QR Oxygen Cylinder Carrier p/n QR-OX-C

**Suitable for use on wheelchairs with Tilt-in-Space and/or Reclining Backrest capability.**

Suitable for use with BOC, Medigas and Air Products oxygen cylinders, within the following size range:- **Diameter** 95mm min.—120mm max. **Height** 300mm min.— 500mm max.

**ASSEMBLED KIT** comprises of:- 1 x Std. Oxygen Cylinder Carrier Frame.  
1 x Rear Support Panel and Stabiliser Straps Kit.  
1 x Pair QRMF2a Oxy. Upper Mounting Brackets with Clamps.

### IMPORTANT NOTES:

- The initial installation of this device should be carried out by a suitably qualified person.
- The RMS QR Oxygen Cylinder Carrier, when correctly fitted with RMS 2A-OXY Mounting Brackets and Clamps as listed above, is suitable for attachment to NON Tilt-in-Space wheelchairs, with Fixed Backrest frame tubes of between 19mm ( $\frac{3}{4}$ " ) and 25mm (1" ) outside diameter.
- The device is intended to safely carry one **O<sub>2</sub>** Cylinder within the size ranges as above, during normal operational use, with the option of being able to remove either the cylinder on it's own, or complete with the Carrier, leaving the Mounting Brackets attached to the wheelchair.
- As the attachment of this carrier, together with a fully charged oxygen cylinder, could add up to 7Kg (15lbs) to the rear of the wheelchair, it is essential that an appropriate stability test be carried out by a suitably qualified person, both with the user seated and as a vacated static wheelchair.
- Suitable Anti-Tip devices **MUST** be used when the Carrier and **O<sub>2</sub>** Cylinder are in place on the rear of the wheelchair.
- Where Pneumatic Tyres are fitted to the wheelchair, the pressures may need to be adjusted accordingly.
- The RMS QR Oxygen Cylinder Carrier, is classed as an accessory to a medical device and as such, has not been included in any wheelchair frontal impact testing to ISO 7176-19. It is therefore recommended that, wherever possible, the Carrier together with Oxygen Cylinder, should be removed from the wheelchair during transportation in a motor vehicle and securely stored for the duration of the journey. In cases where this is not possible, an appropriate individual risk assessment should be carried out.

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

### IMPORTANT NOTE:

These instructions relate to the installation of the **O<sub>2</sub>** 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.

### FITTING:

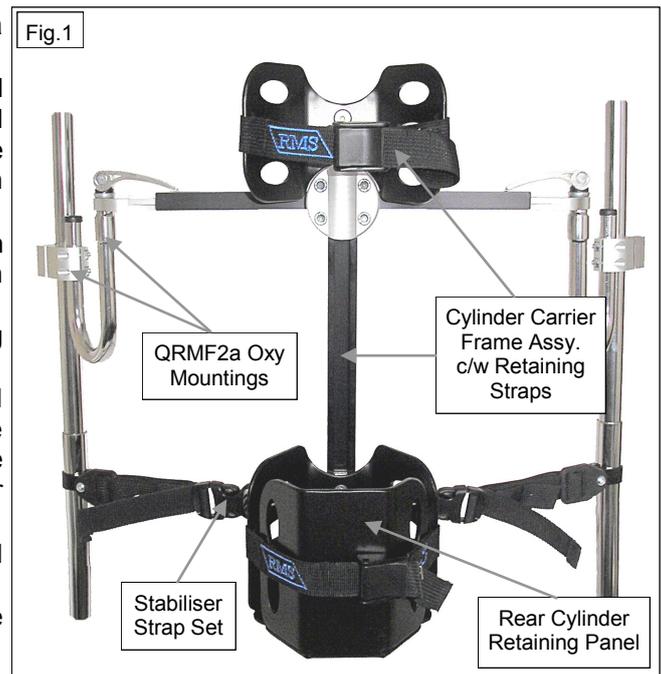
**Tools Required:** 3, 4 and 5mm Hexagon Keys.

In view of the wide range of wheelchairs and their various backrest options currently available, the QRMF 2A-OXY Mounting Clamps and Brackets Fig.2, have been developed by RMS, to enable the **O<sub>2</sub>** Carrier to be attached to wheelchair backrest frames, by either clamping directly to suitable exposed sections of round frame tubes from 19mm to 25mm diameter, or, where a "wrap around" type back -canvas is being used, by clamping around the backrest frames

and back-canvas together.

Suitable mounting positions should be located on the backrest frames, as low down as safely possible, as this will assist with the wheelchair stability.

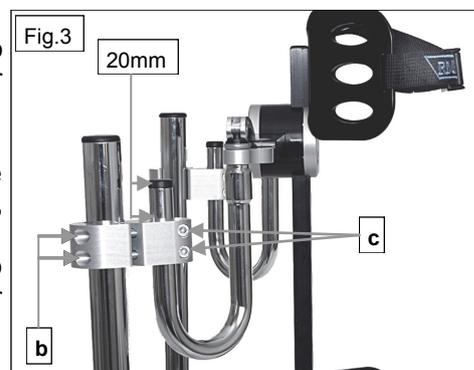
**NOTE:** Obstacles such as doorway thresholds, ramps, steps and curbs must always be taken into consideration when locating a suitable **O<sub>2</sub>** Carrier mounting position.



[PTO]

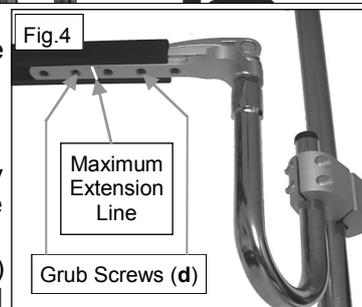
## FITTING Cont.

- To install the QRMF2a Oxy Clamps, slacken screws (b Fig.3) sufficient to enable the Clamps to be assembled around the backrest frame, either directly onto the frame tube or over the wrap-around backrest canvas.
- 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.3, sufficient to maintain their position.
- Before proceeding further, slacken all four side bracket locking Grub Screws (d) Fig.4, 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.4).**

- 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.4. All screws should be tightened just sufficient to prevent any movement.



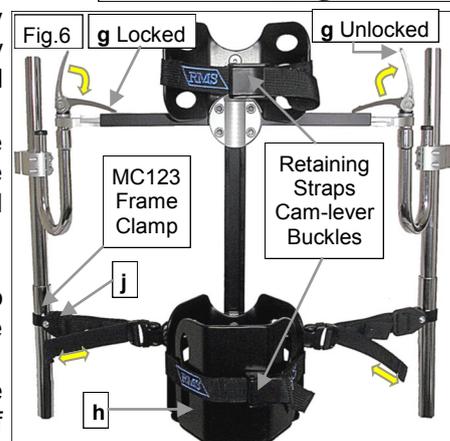
## INITIAL INSTALLATION of the Oxygen Cylinder into the Carrier

- Slacken screws (f) Fig.5, to enable the lower rear Support Panel (h) to move on the Carrier Base Plate and release both upper and lower cylinder retaining strap buckles, Fig.6, by lifting the strap cam-levers.
- Install the O2 Cylinder 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, it is possible to raise the lower Support Panel/s. If adjustment is required, remove the Cylinder/s, then slacken screws (e) Fig.5 and raise the Panel/s to the required height, then re-secure screws (e). Re-insert the Cylinder.
- Slide the rear Support Panel forwards against the Cylinder, then carefully remove the Cylinder 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.5.
- Re-insert the Cylinder and tighten the upper retaining strap against the Cylinder 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 around the rear Support Panel 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**, is by slackening the upper retaining strap/s and lifting the Cylinder/s clear.

**REMOVAL of the O2 CYLINDER complete with CARRIER**, can be done by disconnecting the stabiliser straps at their buckles, then raising both cam-locking levers, (g) Fig.6, to the vertical position and lifting the Carrier complete with Cylinder clear of the wheelchair.

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

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**.