

QFUD-P INSTRUCTION MANUAL

Assembly instructions for the quick release Side mounting system for customers with an existing 32mm mast. Please read carefully and feel free to call for technical support as required. — 8/06/17



Note: If you have a fibreglass van or aluminium composite wall or even aluminium cladding where you need to secure to the wall outer skin using the special rivets supplied for this purpose. See example rivet pictured.

Unpack the components and check the contents against the list below:

Main components:

1. 2 by Side Mounts each with 3 “Feet attached”. (1)



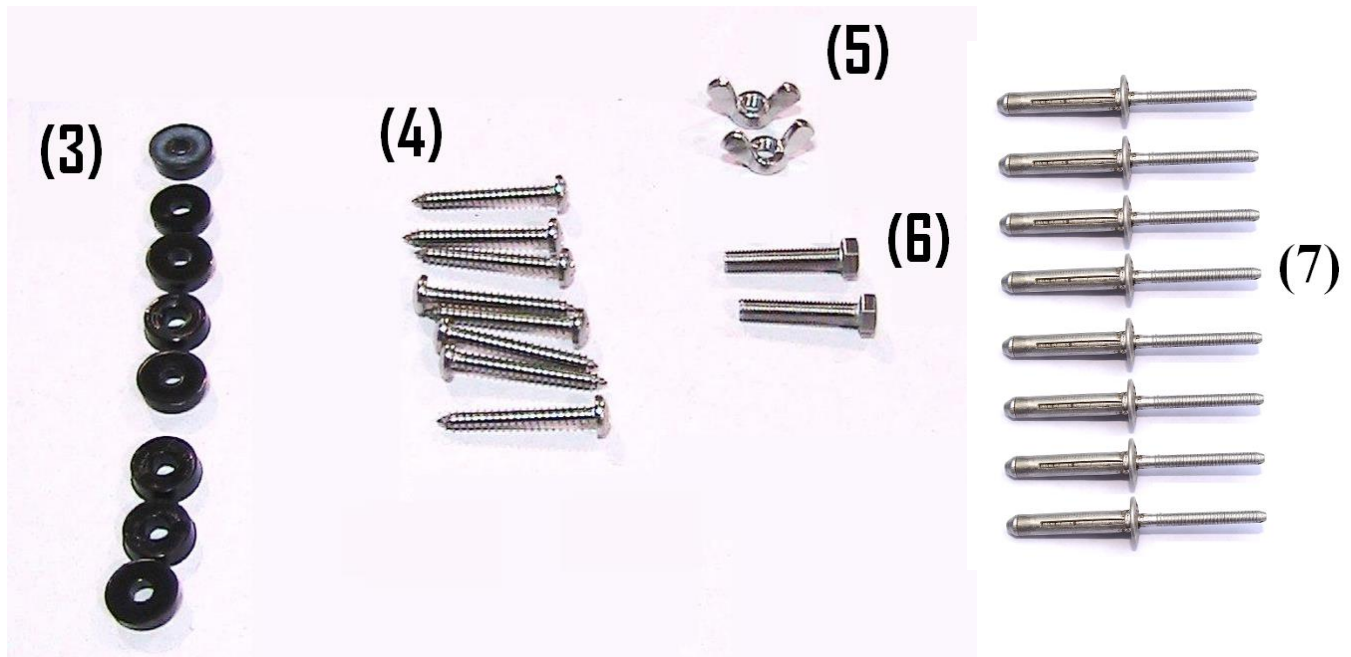
2. 2 by Quick Release Brackets.

(2)



Bolt Pack:

3. 8 by black small spacers - required if the mast as to sit further out from the wall to miss the roof on a pop top or Campervan.
4. 8 by stainless steel #8 x 1.1/4 inch stainless steel screws.
5. 2 by 5mm stainless steel wing nuts.
6. 2 by 5 mm x 25mm hex head screws.
7. 8 x special Rivets for use when attaching the fibreglass outer wall or double layer of aluminium.



Assembly of the mast System Instructions

First assemble the side mounts to your mast so you have a good idea of how it all fits together.

1. Take one of the **side mounts** (1) and fit the 5 mm x 25mm **hex head screw** (11) and wing nut (10) – refer to pictures. Take care to line up the hex head of the screw with the hex shape in the plastic to allow it to seat properly. Repeat on the second side mount.



5mm Hex Head bolt in side mount



Side Mount Bolt and wing nut

2. Slide one of the **Side Mounts** over your mast from the bottom end, making sure that the end with the single foot on the side mount is facing down. Slide it all the way to near the top and loosely tighten the wing nut to stop it sliding.
3. Install the second **Side Mount** to the bottom end of your mast **Section** as above.
4. Decide how far apart you want to mount your side mounts – minimum distance is 250mm. A maximum of 600 mm is sufficient.

Installation Instructions

Step 1.- Firstly bring the van in a level position using standard procedures.

Step 2. - Locate a suitable place to install the masting on your Van/ Camper trailer.

Line up the mast where you want to install it. When mounting you must have wooden structure to screw to, such as the internal wooden bracing used at the front top corner of the van where a wooden gusset is often fitted.

Note: The wiring is run along the length of the van **below** the window height so mount above this line. Check the inside of the van for where the electrical wires may run and be sure to stay away from this area. (Refer to the pictures at the end of these instructions.)

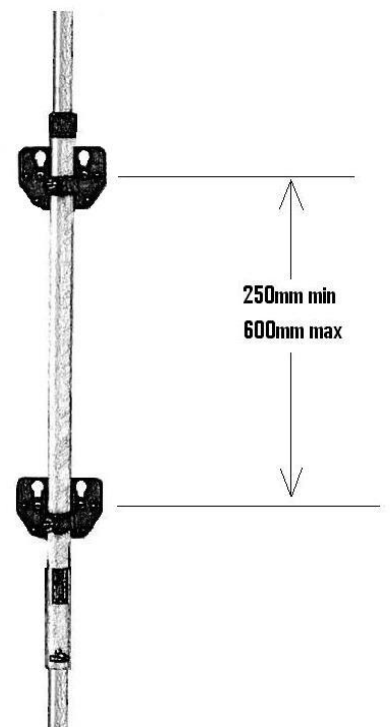
Where you are going to attach to aluminium cladding there should be wood behind these to allow you to securely attach the **Quick Release Brackets**.

Fibreglass vans have a layer of wood behind the fibreglass outer layer some are just fibreglass to foam. Either way you can use specials Pop rivets that split to provide a large surface area to grip over on the inside of the skin. Where there is wood use the screws. These special pop rivets are available from explorer as an accessory pack. Check with the caravan manufacturer if you are uncertain. Care is needed to drill into the fibreglass gel coat; it should be done in small drill steps with sharp drills. A good condition sharp 4 mm drill is fine. Then use the 5mm drill to drill it out for the Pop rivets.

Always seal with a suitable adhesive around the screw bosses on the **Quick Release Brackets** to prevent any moisture ingress. **Such as black silicon.**

For camper trailers a utility box is often attached at the drawbar end and this is ideal to attach to provided no canvas blocks the area when the van is assembled. In this case where no wooden framing is present, we recommend using the special pop rivets enclosed to attach the **Quick Release Brackets**.

The **Quick Release Brackets** do not need to be spaced further apart than the **600 mm and no closer together than 250mm**. The greater the distance apart of course the greater the strength and stability so you should always try for the best distance apart that the location permits.



Step 3. - Once you are satisfied with the position you are going to mount the brackets, locate the top **Quick Release Bracket with the two holes on the upper position** and drill through into the wall using one of the mounting hole bosses using a 3mm drill. (if using the special pop rivets use a 5mm drill - (See picture below). Install one screw/rivet loosely. Level the top and using the remaining drill bosses as a guide drill the remaining holes. Temporarily install the remaining screws/rivets. **Note you will be removing them again to add an adhesive/sealant to protect against water ingress.**



Step 4. - You can now remove the bracket and add the adhesive/Sealant – such as black silicon and reinstall using a standard hand Pop rivet gun or screwdriver for the screws – do not over tighten the screws and strip the thread in the wood.

Clean up any excessive adhesive.

Step 5. - Now when you attach the lower bracket you must check that it falls within the correct spacing criteria and you will want them to be in alignment in a vertical plane. You can use a level for this placed against the side of the side mounts:

Attach the lower bracket to the lower side mount already fitted to the 32mm mast and install onto the top bracket. Correct for any difference in rotation so that it sits flat against the van wall and tighten wing nut to secure. With the van in a level position use a level against the mast and bring it into a vertical position. Either mark the position of the **Quick Release Brackets** or drill one hole to locate it. Secure with a screw/Pop Rivet. Remove the mast and drill the remaining holes for the lower bracket. Checking that it is level in the horizontal plane using the level.

Step 6. - You can now remove lower bracket and add the adhesive/Sealant – such as black silicon and reinstall using a standard hand Pop rivet gun or screwdriver for the screws – do not over tighten the screws and strip the thread in the wood.

Clean up any excessive adhesive.

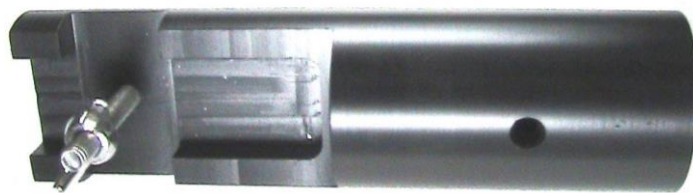
Step 7. - Now loosen the lower side mount wing nut and hook the mast onto the **Quick Release Brackets**. Move the lower bracket as required to bottom out both side mounts in the slots in the **Quick Release Brackets**. Then tighten the wing nuts on side mount – tighten well to prevent movement.

Attaching your antenna

If not using an explorer C4/C4A antenna place the 25 mm mast cap over the top of the 1.5-meter x 25mm dia aluminium tube with joiner attached (5).

If you are using an explorer C4 or C4A antenna then place the **Vertical to Horizontal Mount** over the 25 mm tube and drill a 5 mm hole through one side of the mast only using the 5 mm hole in the **Vertical to Horizontal Mount** as a guide. **Use the bolt in this side to stop any rotation of the pole to mount. Turn it over and drill the other side. The bolt should be able to pass straight through.** Use this hole to secure your C4 antenna when in use.

Vertical/Horizontal mount



If you are not using an explorer C4/C4A antenna you can now attach your antenna to the 1.5 meter x 25mm dia aluminium tube with joiner attached (5).

Place the upper mast and antenna assembly over the top of the existing mast and put the 5mm bolt through and secure with the wing nut.

If you do not need the extra height, then just install your antenna to the existing 1.5 meter x 25mm dia aluminium tube (6) as above. For C4/C4A owners this will mean drilling a new 5 mm hole in the lower section as above.

Congratulations your new mounting is complete.

ALUMINIUM CLADDING TYPE VAN CONSTRUCTION REVEALING VAN LIKELY LOCATION OF WIRING PATH.



Picture of Van with Cladding removed showing lateral electrical wiring and central vertical wiring to electrical section within the van. Pictures at the front and rear of the van show little to no wiring above the lower window height. Right hand picture shows the front top corner where to best mounting position is for this construction of van. This is to screw into the wooden gusset at the top and for the bottom bracket, collect one of the vertical wooden inner wall structure pieces. The remaining lower bracket can be the special pop rivets supplied by explorer under P/n: QFRV. Or you can straddle the wooden vertical member and use the rivets entirely for the lower bracket.