

QFPC-C-P INSTRUCTION MANUAL

For the quick release Side mounting system — 16/08/18

Note: If you have a fibreglass van or aluminium composite wall or aluminium cladding where you need to secure to the wall outer skin: use the supplied 5 mm dia special rivets for this purpose. See example rivet pictured. Further rivets are available from us if required.

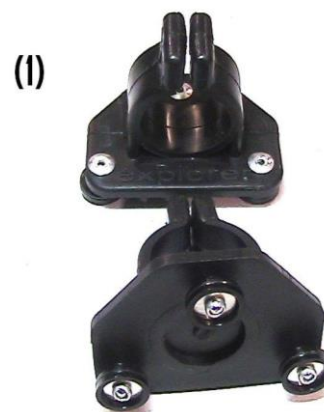


You will also need some black silicon or suitable outdoor sealant.

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

Main components:

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



2. 2 by Quick Release Brackets.



3. 1 by 25 mm mast cap.



4. 1 by 1.5-meter x 25mm dia aluminium tube with black plastic joiner attached.



(4)



(5)



(6)

(5A)



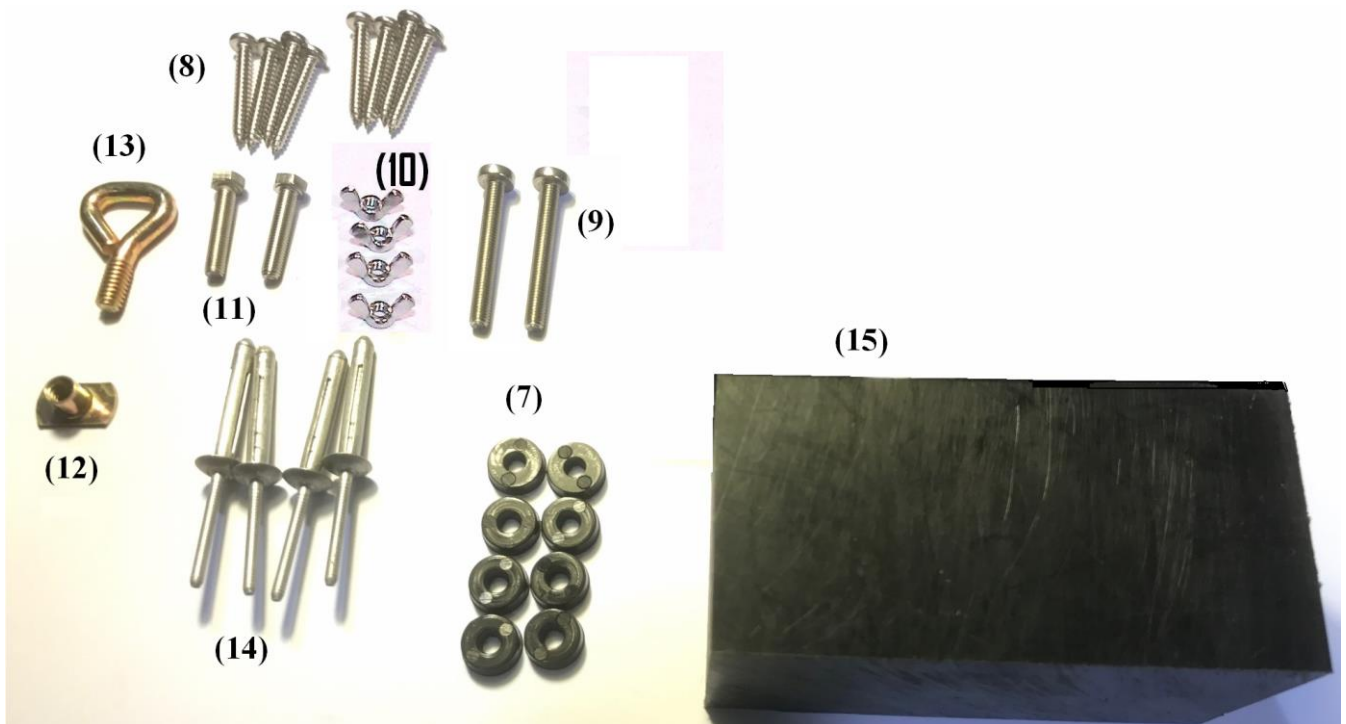
5. 1 by 1.0-meter x 25mm dia aluminium tube.

5A. Mast Joiner, plastic.

6. 1 by 32mm dia x 0.750m long mast Support section with 32mm mast cap installed.

Bolt Pack:

7. 8 by small black spacers - required if the mast as to sit further out from the wall to miss the roof on a pop top or Campervan.
8. 8 by stainless steel #8 x 1.1/4-inch stainless steel screws.
9. 2 by 5mm x 40mm stainless steel screw.
10. 4 by 5mm stainless steel wing nuts.
11. 2 by 5 mm x 25mm hex head screws.
12. 1 by T- nut.
13. 1 by Thumb screw.
14. 4 by Special POP rivets
15. 54 x 108 x 60 mm deep plastic spacer.



Assembly of the mast System Instructions

First assemble the mast system 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 the **32mm Support Section** from the bottom end, (end without the cap) 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 the **32mm Support Section** as above.
4. Install the T-Nut (12) and Thumb screw (13) into the Bottom end of the **32mm Support Section** – refer to figure below.



Assemble the Plastic Mast joiner to the 1.0 meter aluminium pole.

1. Take the 1.0 meter mast section and slide the Mast Joiner over one end. Turn to align the screw holes. If not perfectly aligned twist 180 degrees to get best whole alignment.



2. Insert the 5mm x 40 mm stainless steel screw and secure with the stainless steel wing nut.



5. Take the section of 25mm by 1.5 meter dia aluminium tube without the joiner attached and insert from the top into the **32mm Support Section**. Tighten the thumb screw to hold in place. Note: insert 25mm dia tube end without the hole in it through the 32mm mast cap end of the 32mm mast Support section.

Installation Instructions

Step 1. - Firstly bring the van in a level ground and a level position. Check using a good quality spirit Level.

Step 2. - Locate a suitable place to install the mast on your Van. Note that this should be an area that will not restrict the attachment of awnings pieces or other mountable accessories.

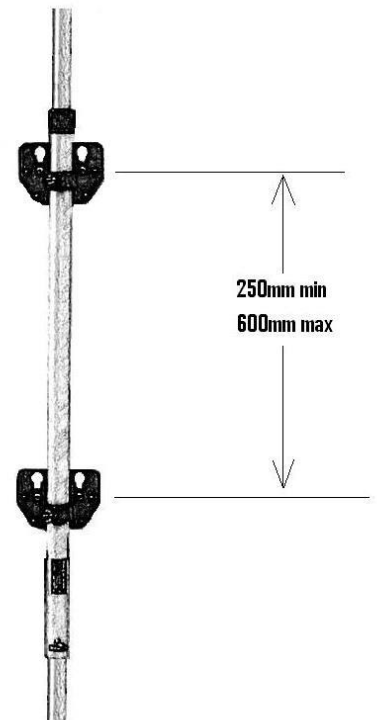
Also Position away from where any wiring is likely to be so that you do not frill into any wiring inadvertently.

The **Quick Release Brackets** can not 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.



Side Mount
fully seated
in Bracket.

Side mount shown not fully
seated and bracket can slide
down further to be seated.



Once the position of installation is chosen.

Step 3. - Once you are satisfied with the position you are going to mount the brackets,

Attach the quick release brackets (Item 2) to the two side mount brackets – make sure they are fully seated so that they cannot slide down any further refer to photographs above. Loosen the wing nuts and press the mast onto a flat ground and tighten the wing nuts. Check that the quick release brackets are still seated fully. This is to make sure they are aligned.

Line up the mast where you want to install it on the side of the van. Check that it is reasonably vertical and see where the lower bracket is positioned. Adjust the position of the lower bracket on the mast to put it where you want it so that it could be riveted on – this should be a flat, vertical section of the van wall.

Once you are happy with the location of the lower bracket you can go ahead and install that bracket.

Note: 1. When using the special pop rivets you will need to open the holes to 5 mm after the pilot 4 mm hole has been drilled. Then use a 5mm drill through the quick release bracket and the van. Refer to picture of rivets below.

Note: 2. You will be removing them again to add an adhesive/sealant to protect against water ingress so don't pull up any rivets until you have all the holes ready and the black silicon around the mounting bosses and rivets to form a seal.



Use a 4 mm drill to drill a pilot hole through one of the bosses in the side mount. Remove the bracket and drill out the pilot hole to 5mm. Drill the boss in the bracket to 5 mm dia.

Install one of the supplied special pop rivets into the boss and position onto the van. Install the mast. With the mast vertical and the bracket fully up - use the 4mm drill to drill the remaining 3 pilot holes. Remove side mount bracket and drill out the remaining 3 holes to 5mm. Repeat with the three pilot holes in the van.

Install the remaining 3 special pop rivets into the bracket and apply a small bead of black silicon to the Bosses - where the rivets come out - to create a seal once installed to the van.

Step 4. - Carefully install the side mount bracket to the van and use the supplied specials Pop rivets that split to provide a large surface area to grip over on the inside of the skin using a standard hand Pop rivet gun.

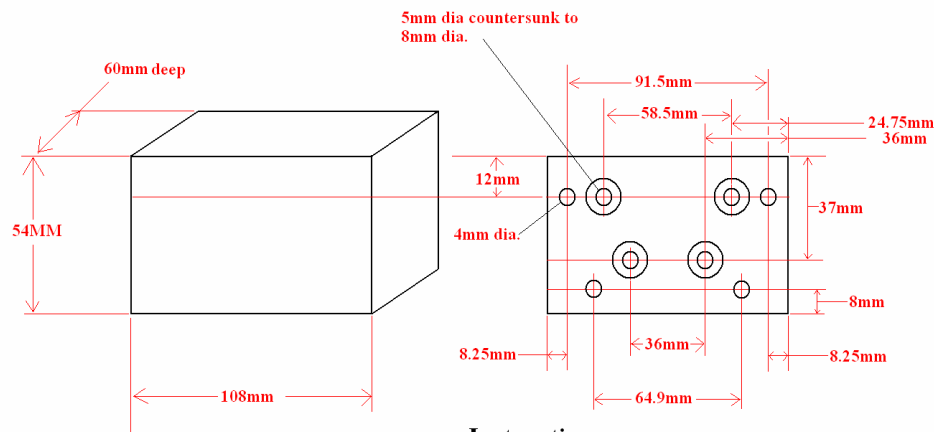
Clean up any excess mess, if any, of the black silicon.

Step 5. - Installing the Top Large mounting Block.

If not supplied already pre- prepared:

First you will have to prepare the mounting Block by drilling the attachment holes for both the Quick release bracket and the counter sunk holes for mounting the block on to the Van using the 1 ¼ inch Self Tapping screws.

See drawing below.



Material: black HDPE PLASTIC

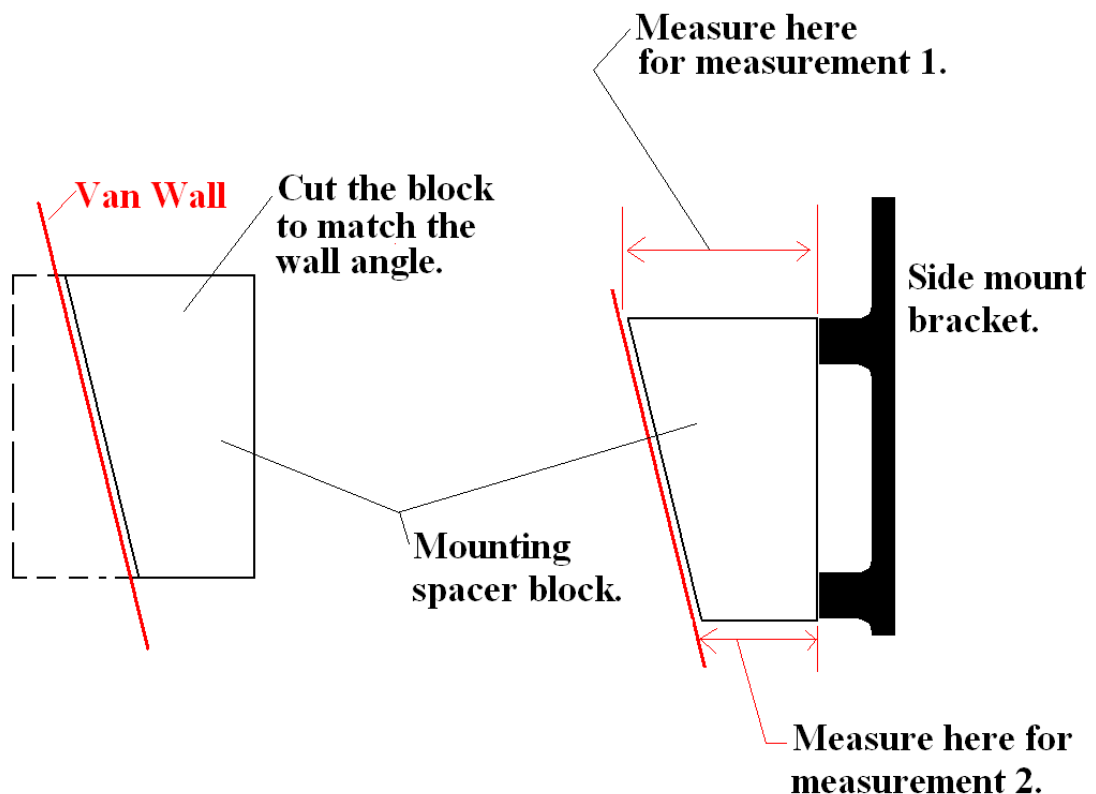
Instructions:

1. Drill all holes as 4 mm dia holes first.
The 4 outside holes for mounting the Quick release bracket, should be about 25mm deep.
2. Drill the 4 inside holes completely through using a 5mm drill bit.
3. Countersink using a series of stepped sized drills to prevent the plastic running up the drill - which will ruin the spacer. Countersink the 4 of inner 5mm dia holes to achieve an 8mm dia countersink - see note for depth information.

Important Note:

The depth of the 8 mm dia countersink is different for the top wider spaced holes than the lower narrow spaced holes. It is based on the remaining depth for securing the block to the van wall after the angle of the rear face has been cut at the correct depth for the particular installation. As a guide the top holes are countersunk to a depth of 47 to 50mm. The bottom two are 40 to 44mm depth. This assumes an angle cut to produce a depth that removes about 10mm off the bottom and the top at the full 60mm depth.

Step 6. - Screw bracket to the mounting block and install onto the side mount. Use a level and hold the mast vertical and measure the gap back to the van wall on the upper and lower bracket from the raised bosses on the side mount. Refer to the drawing below.





Make a cardboard template for shaping the large supplied spacer block to match the angle of the Van wall and to match the distances measured in the last step. You can check your template by holding it against the quick release bracket bosses and against the van wall and checking that the mast is vertical with the spirit Level. Then mark and cut the spacer using a hack saw or band saw if you have one - keep it as straight as you can - to suit the template and check again against the van wall. Clean up any burrs and make small adjustments to the shape with sand paper or a suitable file.

Re-try the spacer block checking that the mast is vertical by re attaching the bracket onto the block by screwing the bracket onto the block using the supplied 1 1/4 inch SS screws. Reposition the mount and check that the mast is vertical, and the spacer block mates well with the van wall. Adjust if necessary. Note that black Silastic will take up some small imperfections.

If all good-and with the bracket still attached and the fitted to the mast; use two of the supplied 1 1/4 inch SS screws in the top two countersunk holes to mark where to drill into the van by pushing on them with a Philips screw driver and turning the screws until it makes a mark in the paint of the van.

Remove the Mast and drill where marked using a 3mm or 1/8 inch drill bit, 2 small pilot holes through the van wall and deburr. Remove the bracket from the mounting block and attach the bracket to the van using the top two screws already drilled. Then repeat the marking procedure and drilling of the pilot holes for the lower two countersunk screw holes.

Note: You should remove the spacer block and apply some black silicon to the block and re-install using the screws. This will ensure no water ingress to behind the mounting block help with attaching the block to the van and fill any small mismatch between the block and the van wall.

Clean up any excess mess, if any, of the black silicon.

Step 7. - Now re-install the Mounting block and secure using the 4 x 1 1/4 inch SS screws.

Step 8. - Now re-attach the Bracket using the 4 x 1 1/4 inch SS screws.

Step 9. - 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.

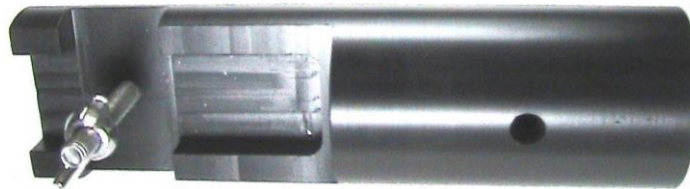
Attaching your antenna

Now as the position of the mount varies greatly from Caravan to Camper trailer etc you may find that that the extra 1.5 meters of the top pole is too long. It needs to be high enough so that if the antenna is mounted vertically with the VHF telescopic elements pulled out about half way it will clear the top of the caravan by about 250mm. So that would be the lowest point or where the joiner of the top section is sitting against the 32mm section and cannot be lowered further. You can simply cut a section off the top piece of 25mm dia aluminium to make it suit your van installation.

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.

See next page for extra instructions when fitting an explorer “thru the wall connection kit”.

SPECIAL NOTE WHEN INSTALLING THRU THE WALL CONNECTION KIT TO A VAN.

There is varies ways to install the connection kit or antenna point depending on the particular van construction. The easiest way is to install the connection kit inside the van on an existing bulkhead or wooden structure built into the van for mounting the TV etc. Use a short cable from the rear of the connection kit to our PM8 external connection.

