

AOR Series IV Q+ Air Conditioner Filter Removal/Replacement

This process covers the removal and replacement of the Air Conditioner (AC) filter(s) in a Series 4 Quantum Plus.

Pictures 1 identifies the general location of both the 'fluff' and 'particle' filters on the Truma Saphir Comfort RC air conditioner fitted by AOR, i.e.: on the inside face of the unit!

Warning: The Air Conditioner relies on 240v for its function: before commencing any work on the unit, turn off and disconnect the 240 mains supply to the van.

Access:

The 4 socket button screws that hold the external SS cove on the AC unit must be undone and removed along with the SS cover (Picture 2)

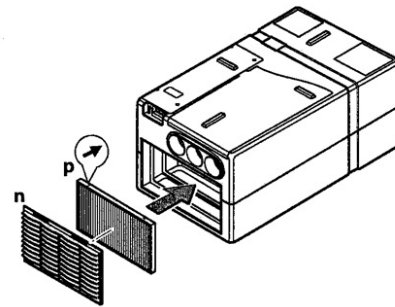
Internally, the mattress must be lifted out of the way to give access to the trap door above the AC unit. As the mattress is too wide to be turned on its side and stood up, holding the mattress up with something like a large esky will give you sufficient room to work (Picture 3). Picture 3 also shows the access hatch removed

Removal

With the external SS cover removed; the mattress secured out of the way and the access hatch removed, work to remove the filters can start.

Picture 4 shows three air tubes on the left-hand side that are connected to the AC unit plus one of two aluminium retaining brackets. Picture 4 shows both retaining brackets.

Picture 1



Tools needed: 3mm Hex (Allen) Key and a small (e.g.: 4 x 100mm) flat bladed screw driver

Parts (Filters):

Fluff – Pt No. 40090-64600

Particle – Pt No. 40090-58100

Picture 2



Picture 3



The retaining brackets are held down with a wing nut at each end along with a spring and plain washer. All four nuts and washer assemblies, plus the two bars must be removed. This will allow the AC unit to be slid out of the storage cavity 200 – 300mm which will allow sufficient access room to remove the filters.

Note: *The limitation to how far you can slide the unit out will be the electrical cabling, but you should not need to disconnect any wiring to enable the filters to be removed.*

The three air tubes easily pull out of the foam moulding that surrounds the AC unit.

Note: *Care needs to be taken when moving the tubes that you do not crush them.*

With the air tubes moved out of the way, you will see a thermo couple is retained to the outer (fluff) filter via a steel clip. Using a small flat bladed screwdriver, the steel clip and thermo couple can be taken off the filter and moved out of the way (Picture 6).

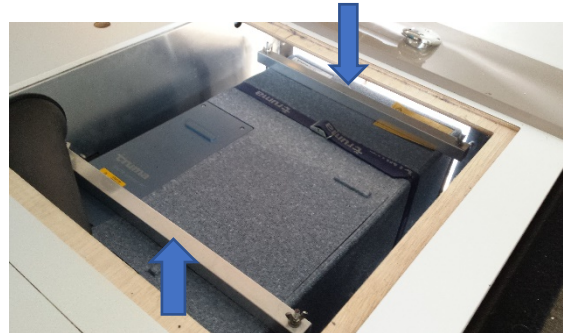
Using the small screwdriver again, you can carefully prize the top of the fluff filter away from the AC unit casing. Just in front of the electrical box, there is a small relief in the AC units casing that allows you to slip the screw driver between the filter and the AC unit case. The filter will lean out from the top and from this position it can be pulled straight up and out of the cavity for cleaning.

The particle filter (paper and light cardboard construction) can then be carefully removed from its housing within the AC unit case (Picture 7).

Picture 4



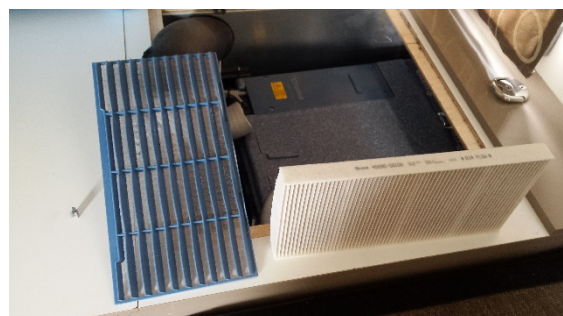
Picture 5



Picture 6



Picture 7



Reinstallation.

Re fitting the filters (cleaned &/or new) and assembly of the AC unit is simply the reverse of the above process.

Note: *the particle filter are flow direction sensitive and must be installed with the air flow indicators pointing into the AC unit.*