



ATAS counterweight set

for ATAS-100 and ATAS-120

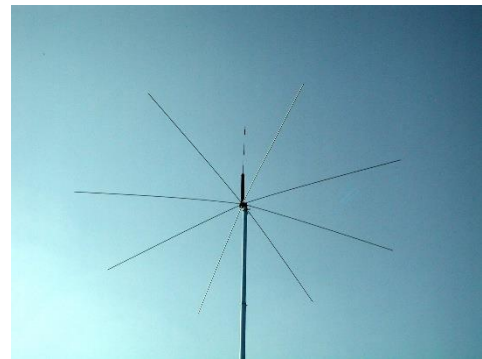


Description:

The well-known YAESU antennas were developed as vehicle antennas, but because of their compactness they are also popular as portable or stationary antennas.

Almost always the balcony railing or the magnetic base are not enough as a counterweight, with our counterweight set you can remedy this. The ring is attached directly to the ATAS and can remain on it for alternating mobile or stationary use. The circle of aluminum rods does not form a perfect counterweight, but with a diameter of 4 m it is still a useful counterweight, better than any balcony railing or 3 ropes on the floor...

But our kit can also be used for stationary mobile applications, as the magnetic base on the roof rarely has enough capacitive coupling to the car body.



For the installation example shown on the right, further components from our product range were used, the heavy PL mounting foot 20029, the stainless steel mounting bracket 11106.01 and 2 U-brackets 23041.54 as well as a portable mast including tripod.

Assembly:

Mount the ring on the ATAS with the two short M6 stud bolts. Use the two marked threaded holes of the ring for this. On the ATAS-120 there are two flattened sides, one of the screws should be centered there, then the ring is fixed with the second stud screw. Thread the toothed washer M6 onto both stud bolts and lock it with the nut M6. Do not tighten with force, the base of the ATAS could be damaged.



If required, one of the soldering lugs M6 provided can be attached, e.g. for a wire connection to the magnetic base, balcony railing or also for a single 40m wire radial (sheathed copper wire has the order number 40051.xx).

When you have mounted the ring, the ATAS is mounted on its PL base, then the 8 radial rods are assembled, see also picture below.

Insert the end caps into the 8 rods from which an M4 threaded bolt protrudes. Do not exert force on the M4 threaded bolt! Then screw the 8 rods from behind into the rods from which the M6 threaded bolt protrudes.

Tighten by hand and, if necessary, secure with insulating tape or heat shrink tubing to prevent shaking loose. The screwed rods are then screwed into the remaining 8 holes on the ring, tightening by hand is sufficient.

Rod with M6 thread

Rod with M4 thread and end cap



The rods are shown shortened in the picture above.

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Durable assembly:

If the antenna is to be permanently mounted with the counterweight, it is recommended to first screw in the radial rods and tighten them with an Allen key on the inside of the ring. "Hand-warm" is sufficient, do not use force! Then place the ATAS in the ring and fix it with the stud bolts as described above.

In stormy areas, it may be advisable to connect the radials to each other with a thin fishing line outside the separation point. Place a coil around the radial and fix it with UV-resistant insulating tape and/or a cable tie.



Tips and hints:

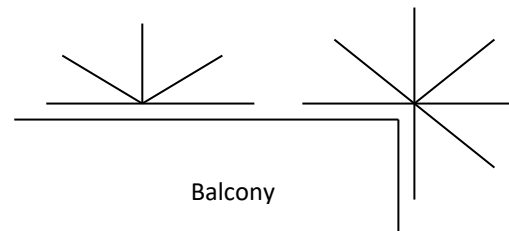
If the counterweight is used on a balcony where the radial rods pointing inwards interfere, they can of course be shortened or omitted, but then losses must be expected. We recommend mounting the antenna on a corner of the balcony to cover at least 270 degrees instead of only 180 degrees with the rods. See sketch below.

Those who cannot lay out a possibly necessary wire radial for 40m long can try to wrap it around the radial rods similar to the fishing line described above. The additional weight of the wire should be supported by some kind of bracing at the top. Instead of insulating tape, you can of course also use cable ties.

For permanent assembly, we recommend coating the threads and the contact points to the ATAS with "Butter it's not" lubricant, it improves the contact and prevents corrosion.

Scope of delivery:

Mounting	ring1	A-1850
Aluminum rod with thread	M68A-1849	
Aluminum rod with thread	M48A-1848	
Plastic plug for radial	tip8A-0016	
Grub screw	M6*252S913-9625	
Nut	M62S934-96	
Solder lug	M62A-1366	.1
Toothed lock washer	M62S6798-96	



Hazard statements:

During assembly and use, please ensure that no one can injure themselves on the poles or touch the poles during the consignment.

We recommend making access impossible in case of insufficient mounting height for fieldday or stand-mobile use. When mounted on a normal car, the radial rods are at eye level, running and cycling children and passers-by can cause very serious injuries to their neck, face and eyes!

Do not use the kit on the vehicle while driving!



ATAS-GG_HF-Counterpoise-Kit_EN | 01/24

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