

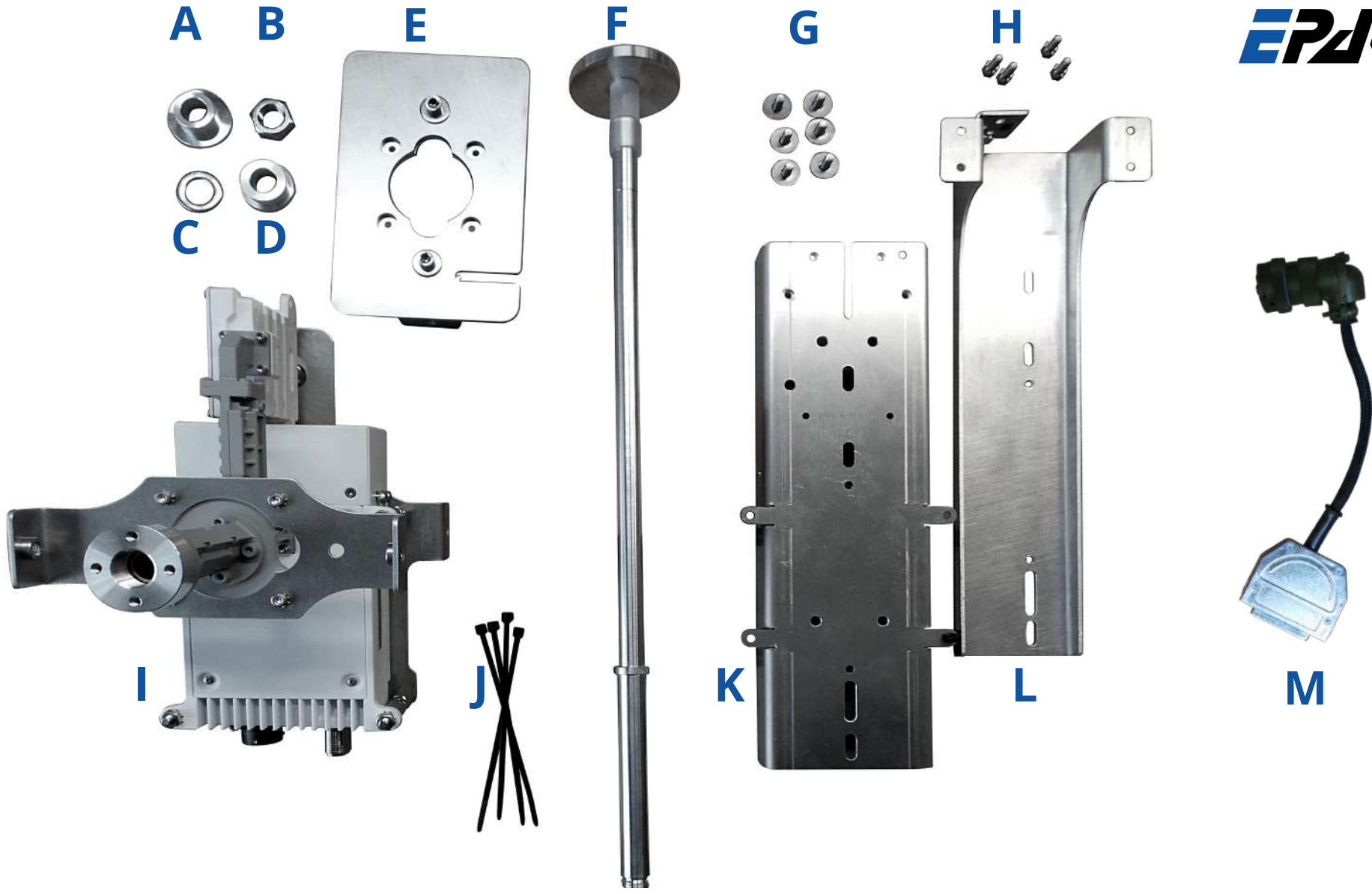
Conversion DSi9 Ku-Band to Ka-Band



Instruction Manual



Ka Conversion Kit Components

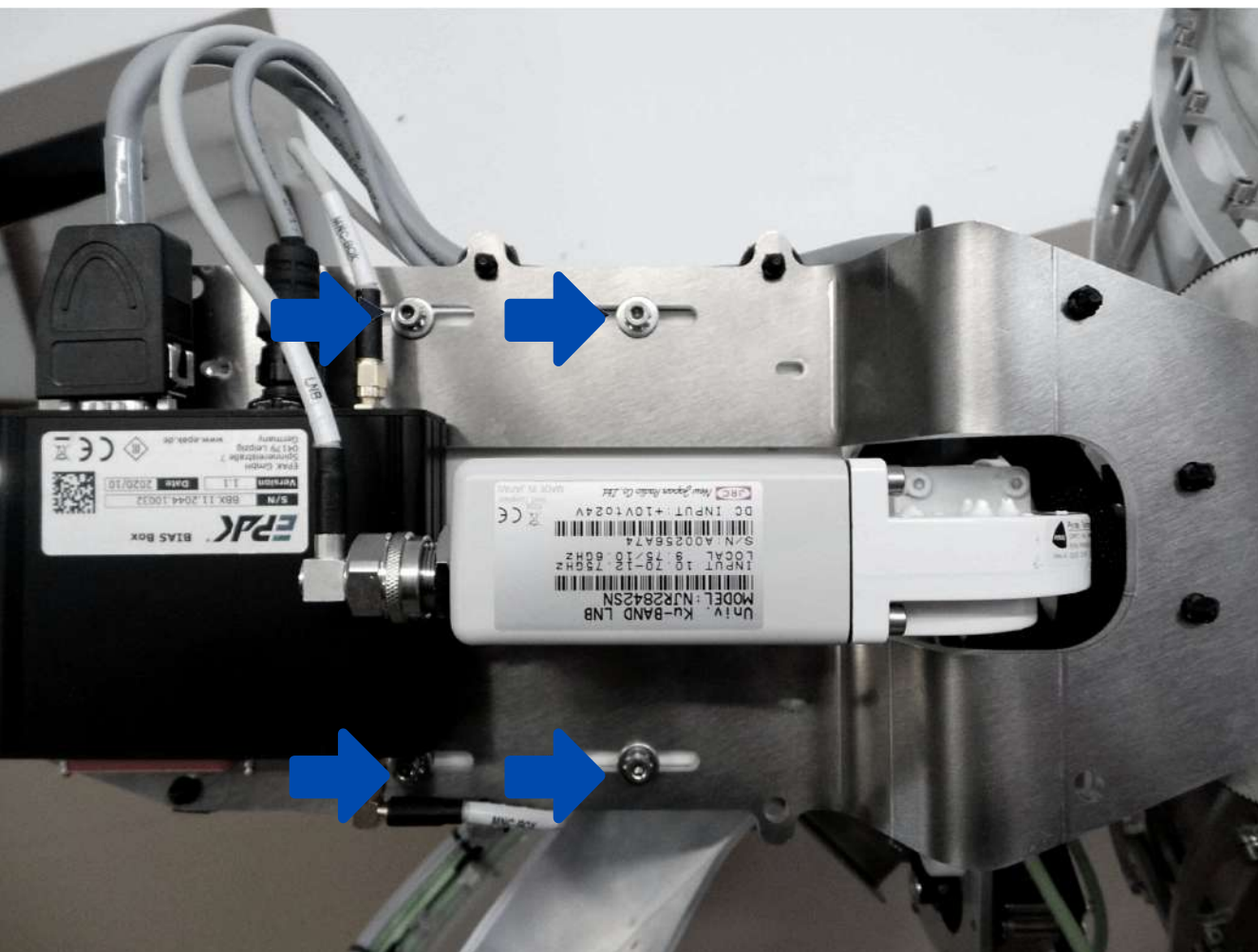


EPK[®]

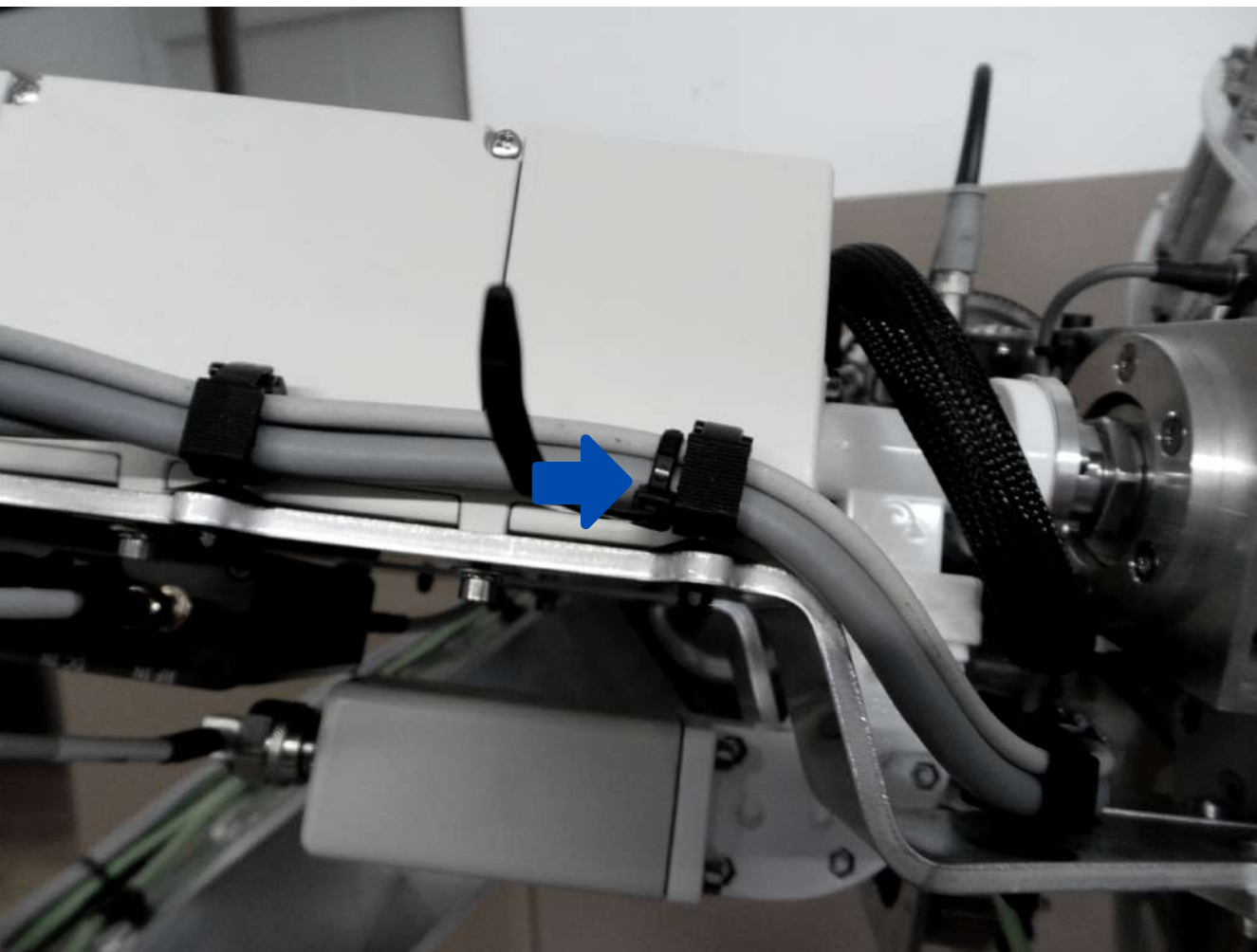
Required Tools



- Wrench size 8
- Ratchet size 8
- Wrench size 19
- Wrench size 17
- Offset Wrench size 27/30
- Wrench size 24
- Wrench size 30
- Allen key size 4 single tilted
- Allen key size 3
- Allen key size 5
- String cutter
- Grease



Unfasten 4 screws but do not remove them.

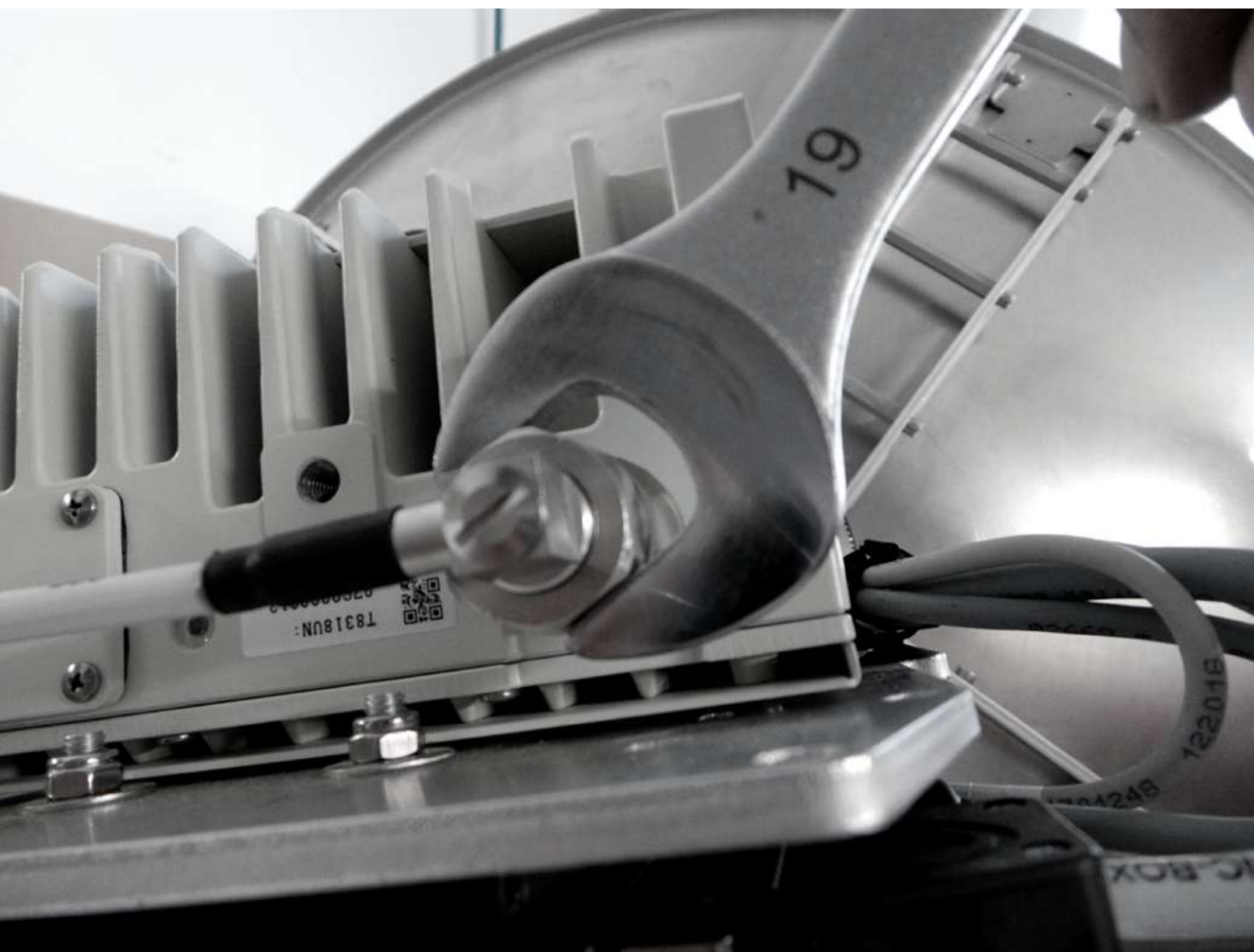


Attach an extra cable tie next to the cable clip (where the metal holder beneath makes a turn).

This is a marking for later and ensures that cables do not slip when the clip is opened later on.



Disconnect N-connector from LNB.



Disconnect N-connector from BUC.

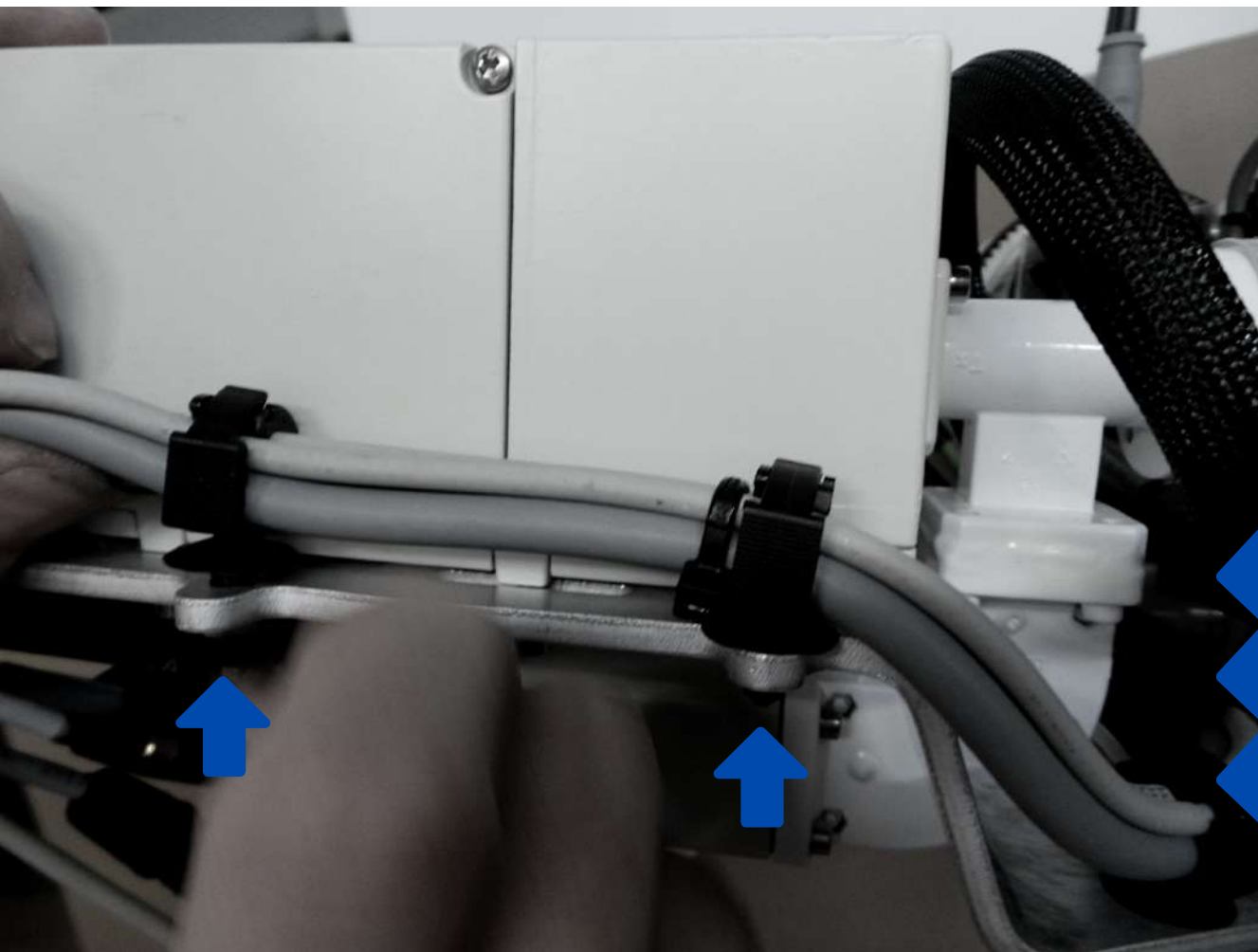


Disconnect all 3 connectors from Bias Box.

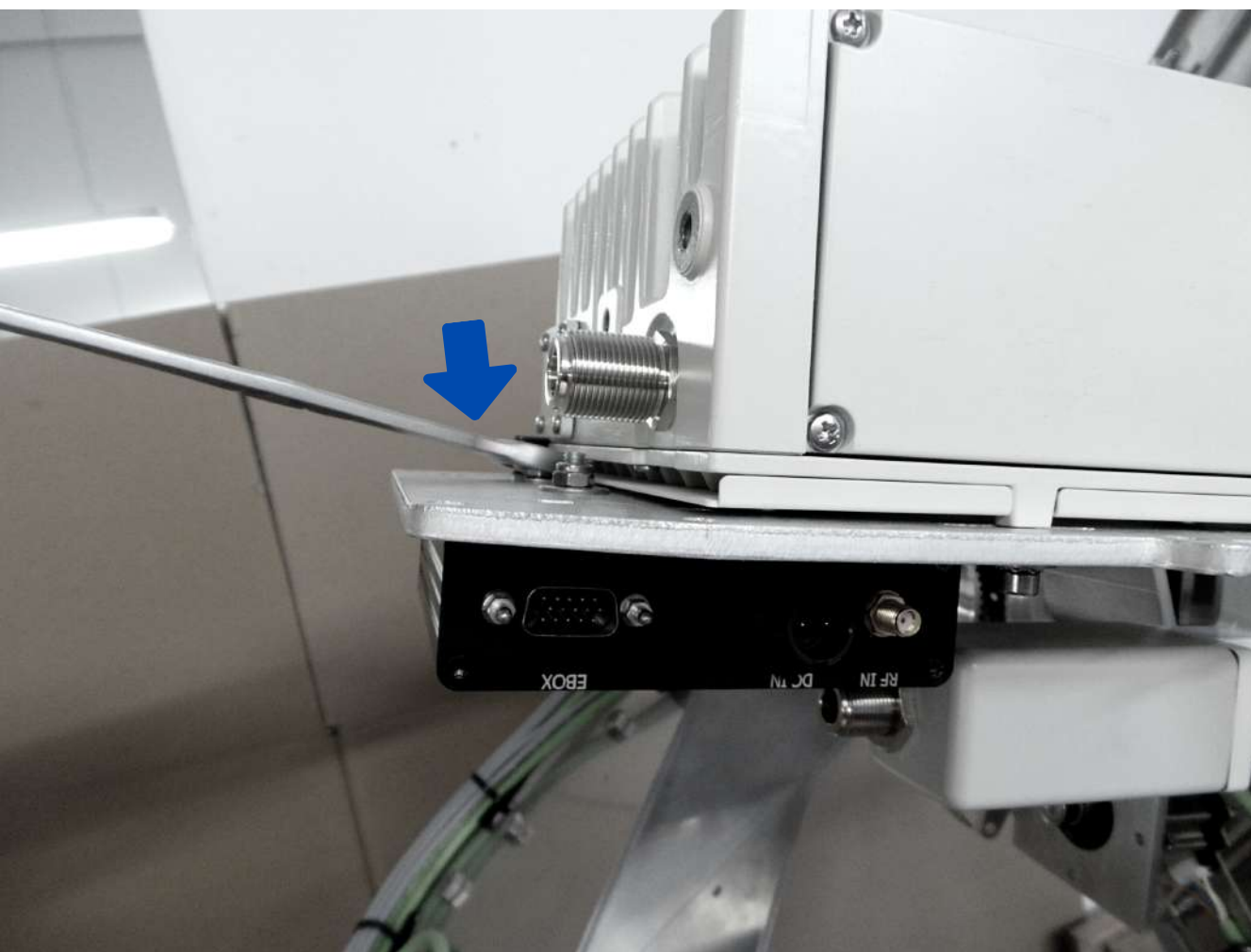


Disconnect 1 SMA connector from Bias Box (opposite side)

Unclip cable and lay aside for later.



Take out cable harness by pushing the fir tree clips through the plate (keeping the clips closed)



Remove Bias Box (black) and lay aside for later.



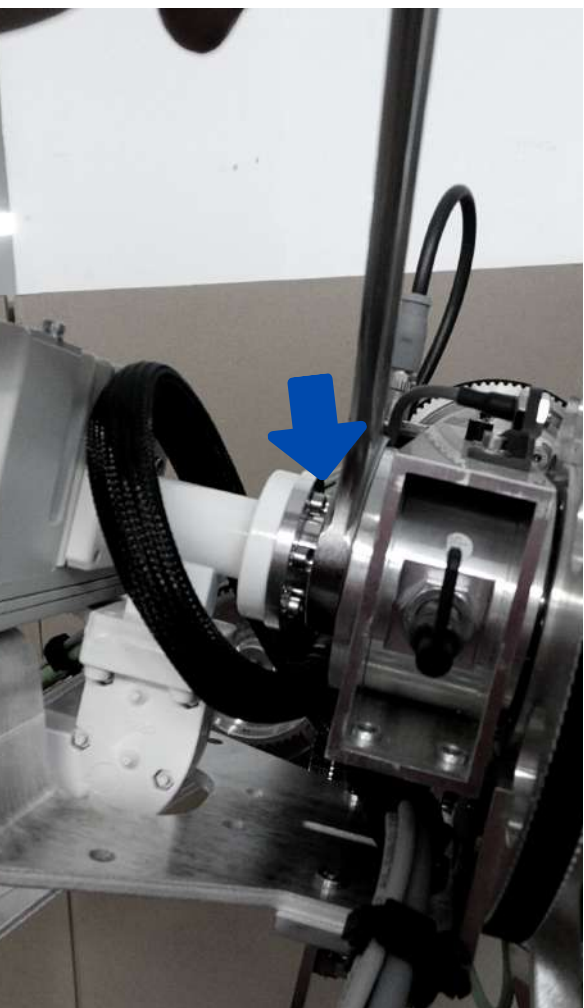
Hold the Waveguide at the Hex Nut inside the Main Reflector with a size 27 **offset** wrench



... and simultaneously unfastening the Locknut at the rear side of the reflector with a size 30 Wrench. Turn several rounds.

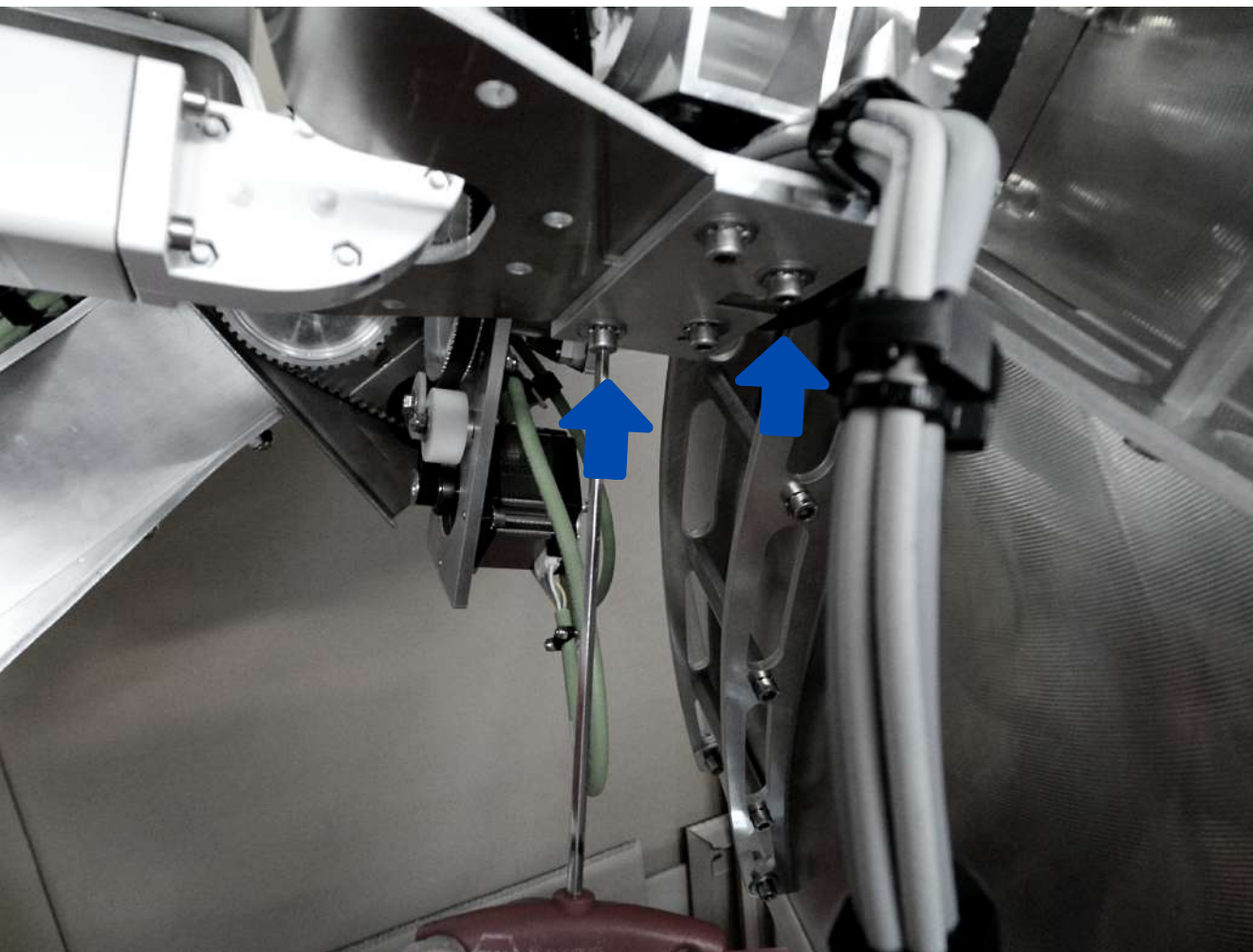


Now loosen the Waveguide
(carefully apply some force if
necessary)



Hold the Locknut at the rear and unscrew the Waveguide by hand, gripping the aluminium pipe and turning it counter clockwise.

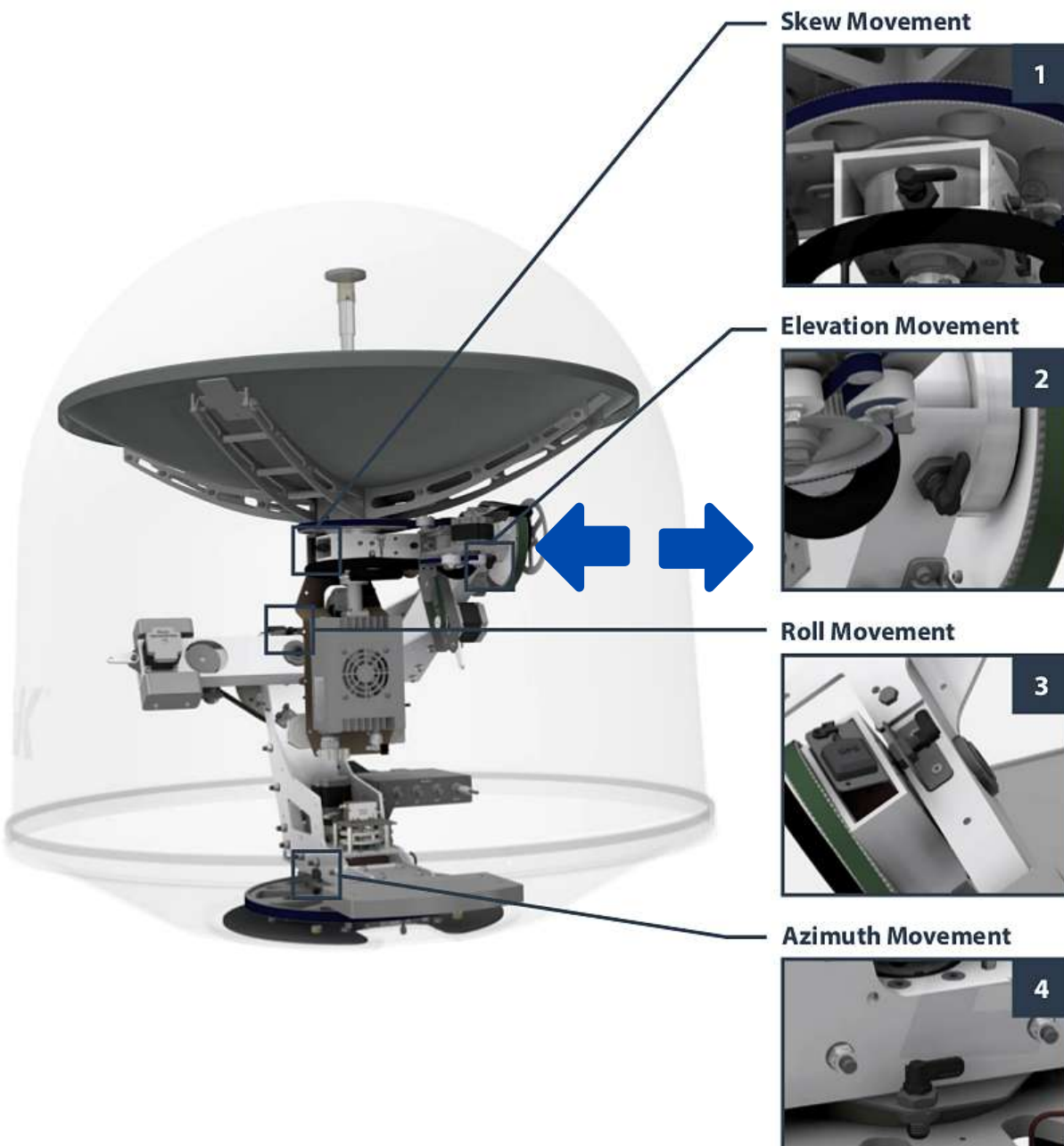
The subreflector at the tip of the Waveguide remains untouched. Handle with utmost care and store carefully for later use.



Unfasten the first 2 out of 4 screws of the BUC holder plate



Remove the M24 Locknut



Point the antenna reflector upwards and lock.

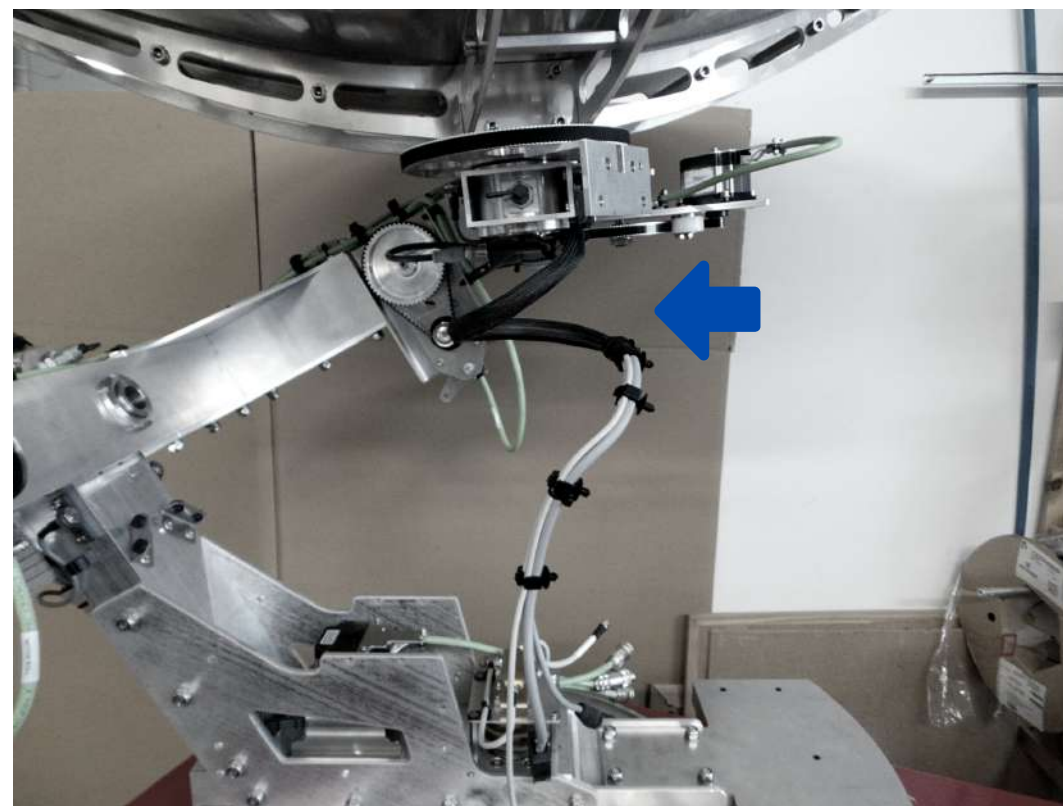
A visible red dot on the handle indicates that the handle is locked. A green dot indicates that it is open. To open or close, pull the handle towards you and turn until it locks in the new position. Confirm by checking movement of the antenna.



Now remove the remaining 2 screws. Hold the BUC unit as shown to prevent it from falling.



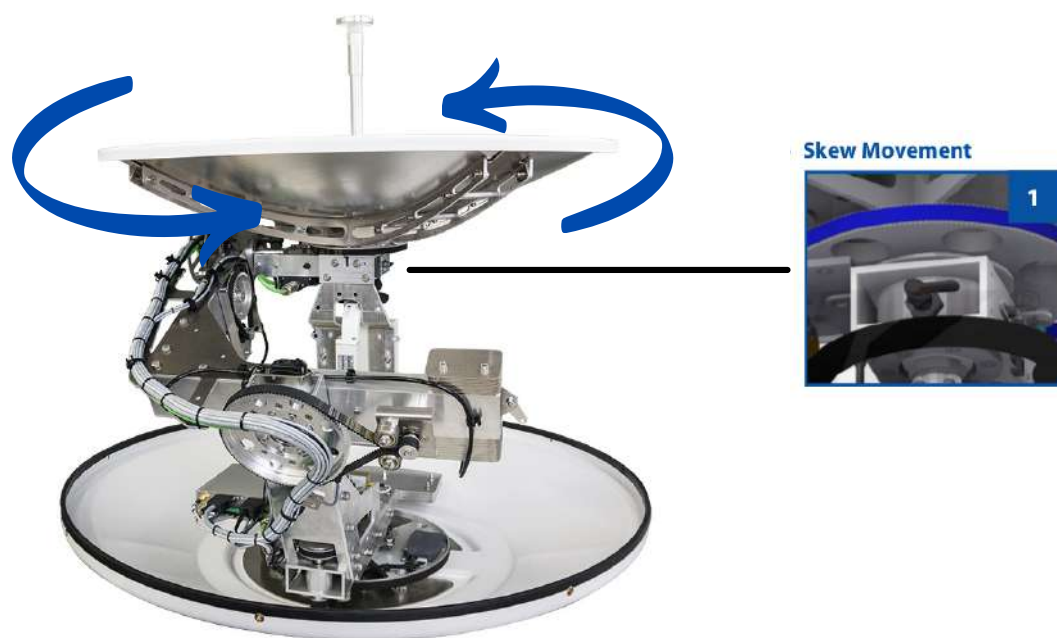
.... and take out the whole BUC unit.



Keep / Remember the natural form of cable strand



Half way done! Now mounting the Ka components



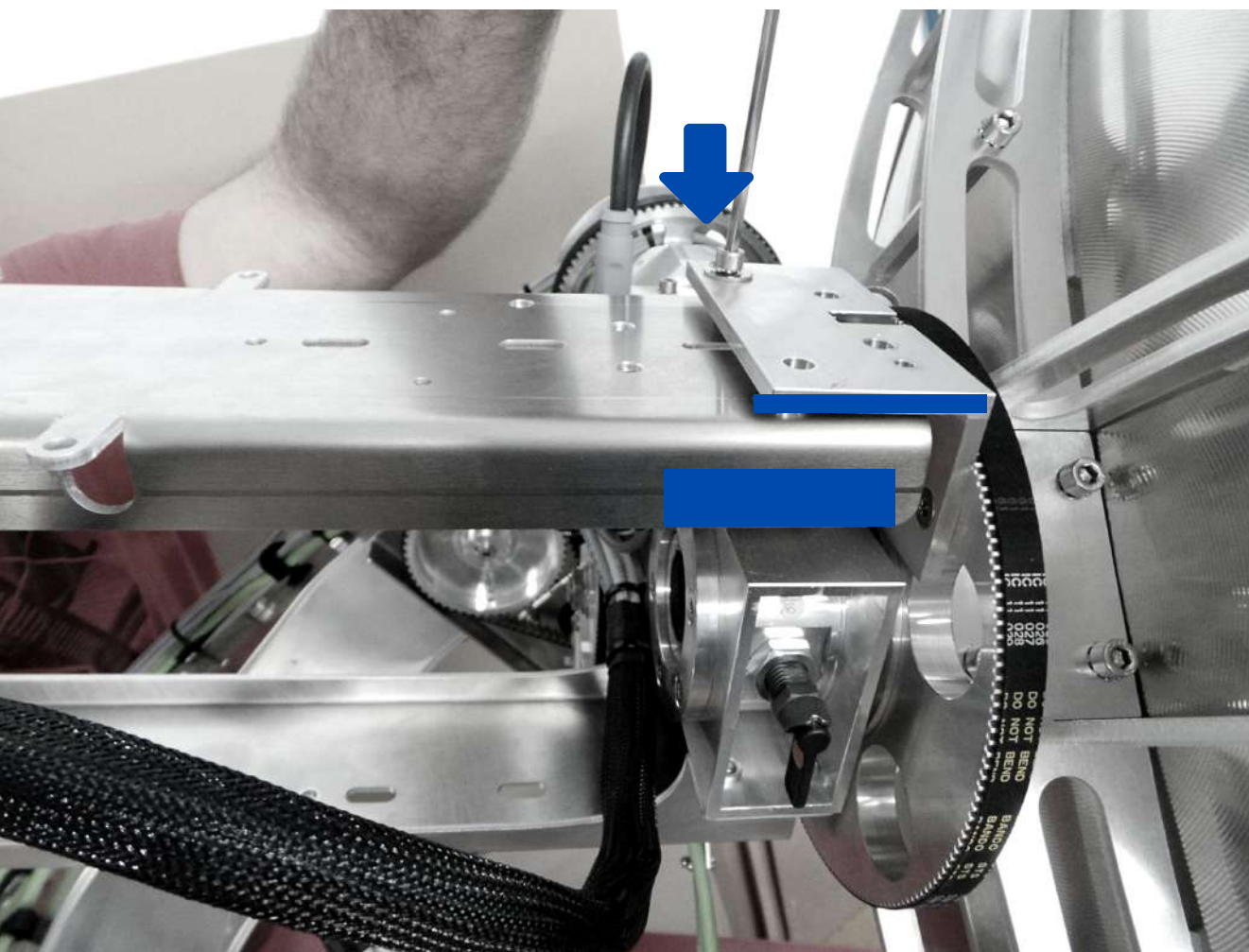
Turn the reflector 180° and lock the skew movement.



Attach bracket (**L**) with 4 pcs. M5x10 screws and toothed washers.

Align exactly and tighten crosswise.

Point the antenna reflector down again and lock. (Take care that the reflector does not whiz down at speed.)



Attach the second bracket (**K**) with the previously used M5x16 screws, washers and toothed washers.

Align exactly (check from above that edges run parallel)...

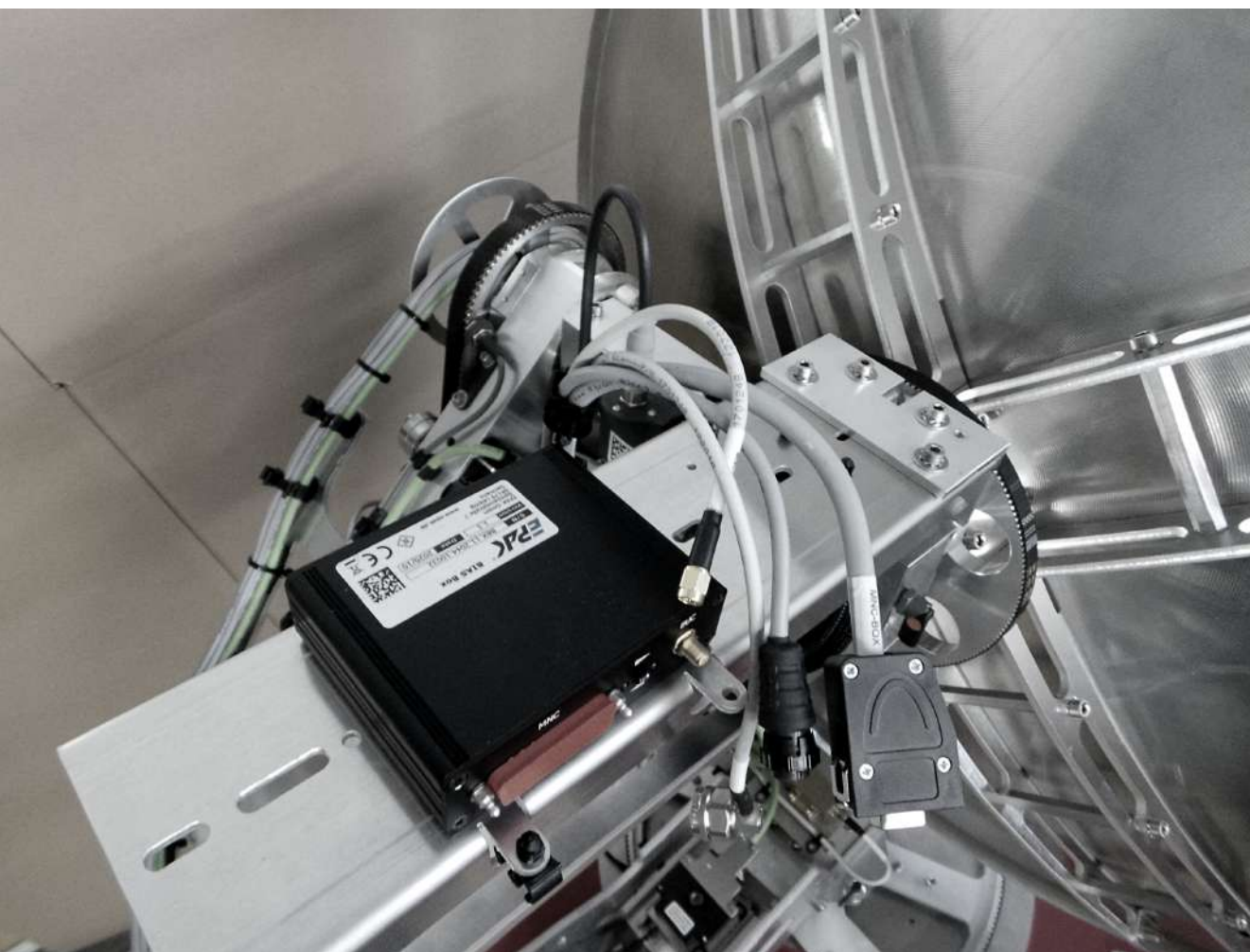
...and tighten screws crosswise.



Form the wiring harness back into the original loop and press in the first 3 fir tree clips.



The 4th clip (with your cable tie next to it) is pressed in from the outside. Open the clip to give room to the cables as needed.



Secure bias box (black) with old washers and self-locking nuts. (hand tight, not too much).



Apply grease to the Waveguide as shown (only upper part of thread)



Mount flange **A** onto the Waveguide - apply grease

Apply grease also to part **D** and keep it within reach together with the locknut **B** and washer **C**



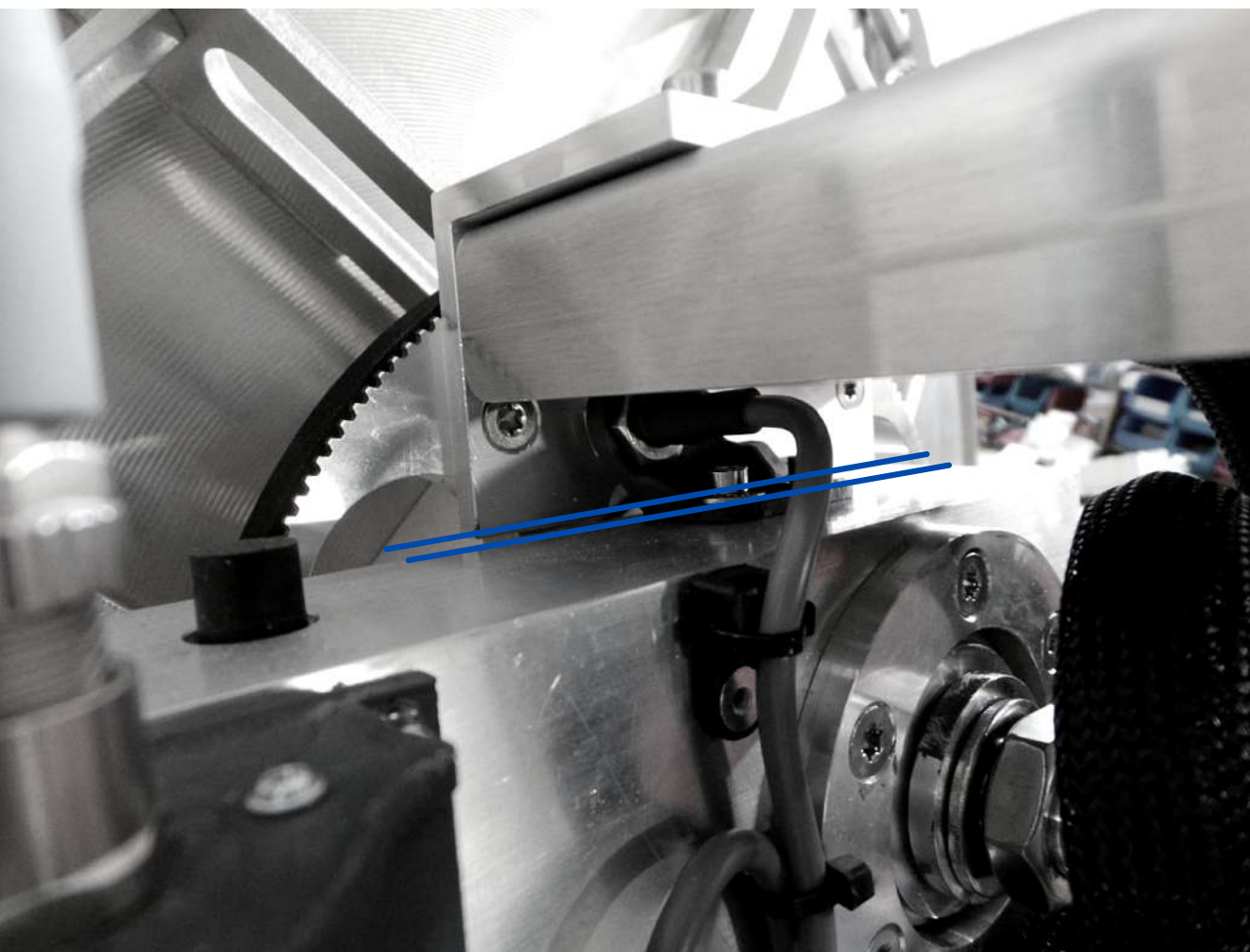
Check that the rubber seal is still in place inside the reflector opening.

Insert the Waveguide with flange (pushing or turning).



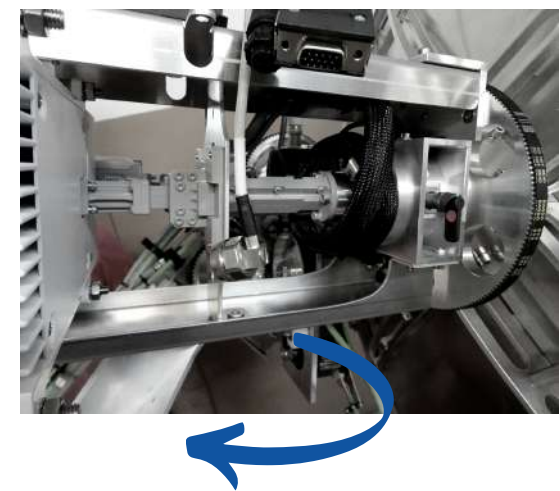
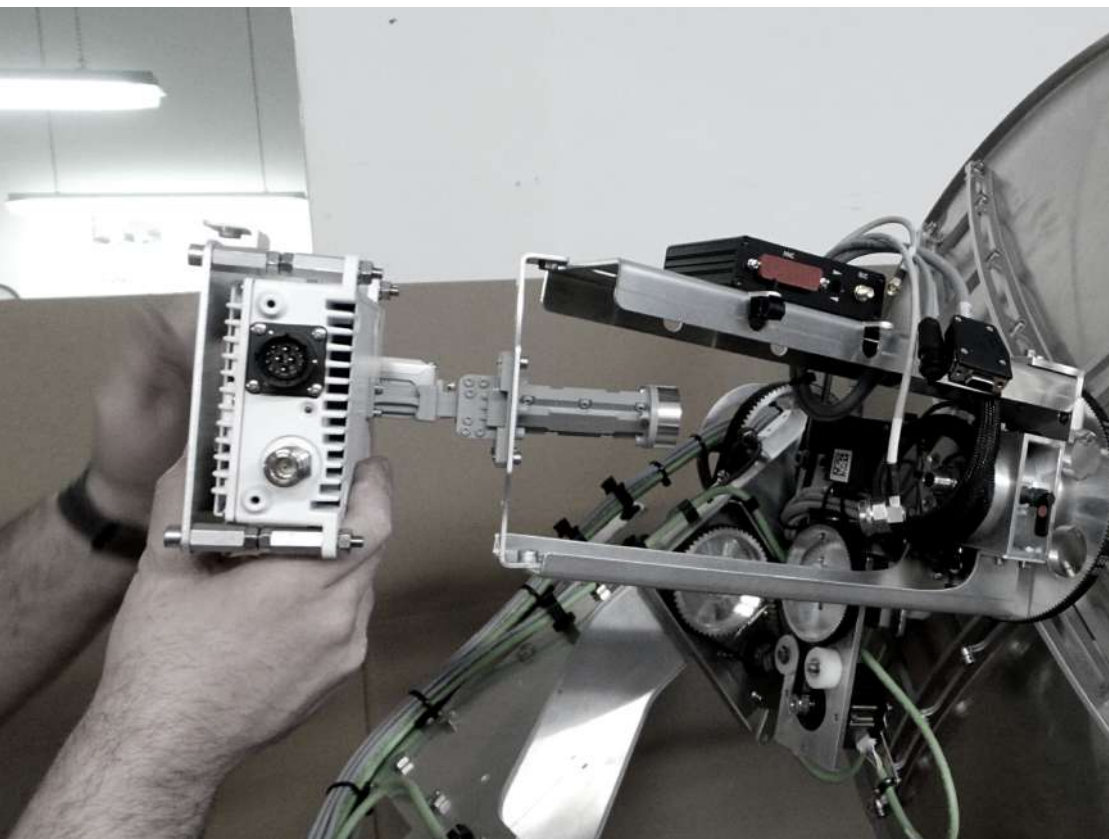
Keep holding the Waveguide while you fix the flange (D) + washer + locknut from the rear.

Screw the locknut on a few turns but do not tighten it.



Despite the lock mechanism of the antenna, there is a little bit of room to wiggle the roll arm.

Ensure parallel alignment as shown, before moving to the next step.

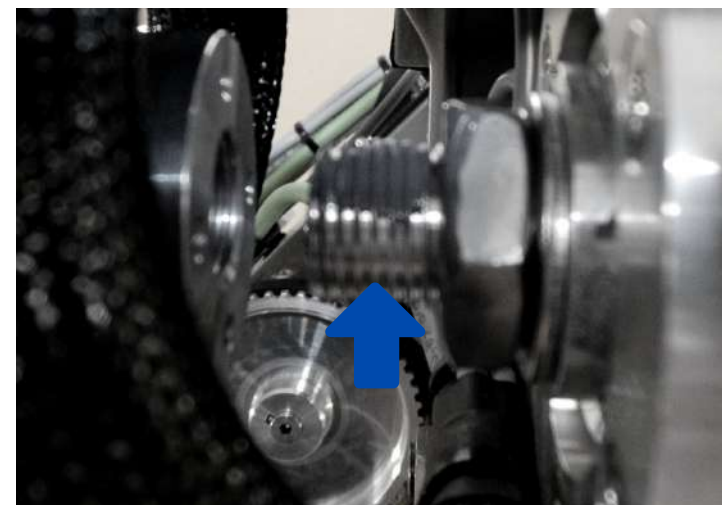
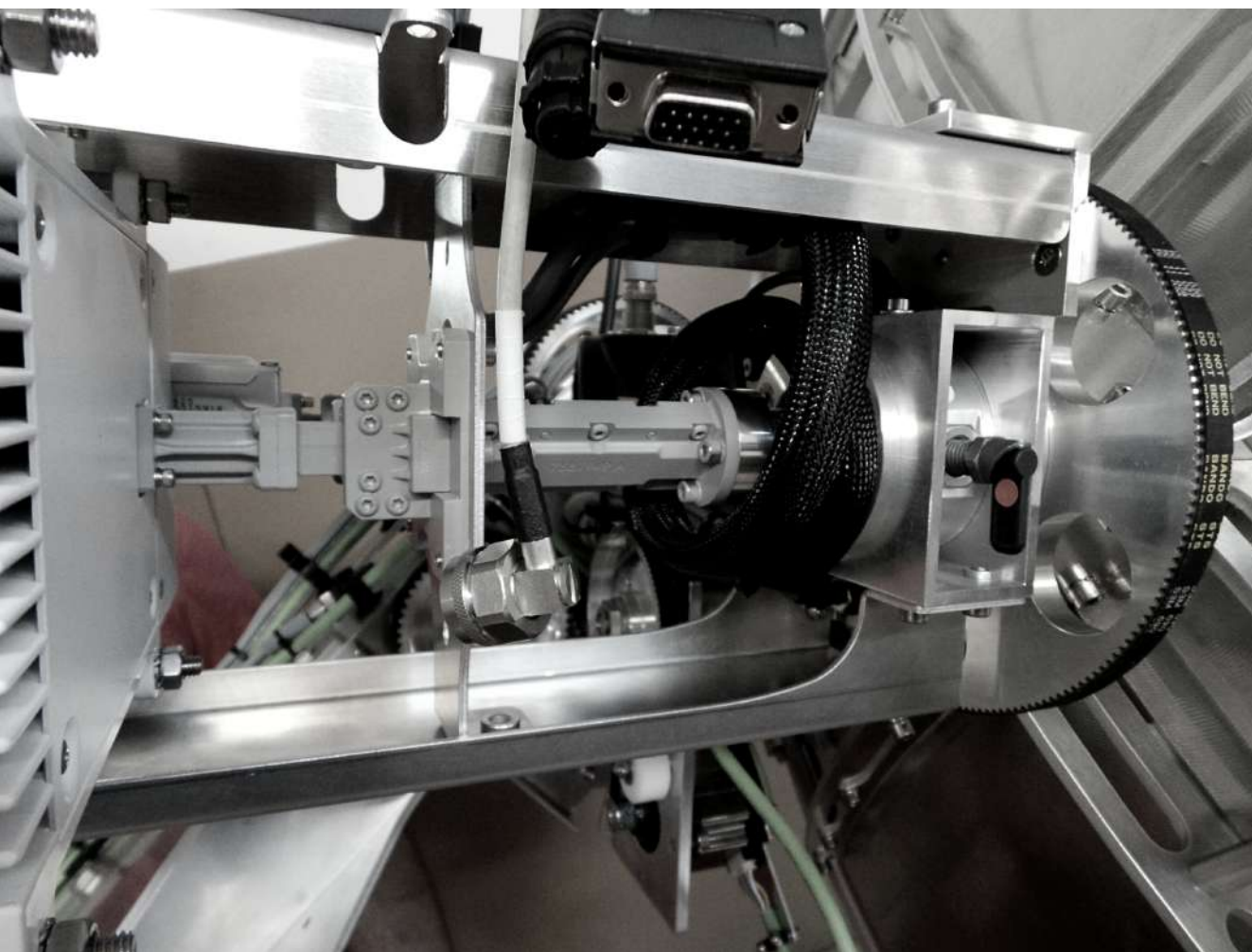


Mount the Ka-BUC-unit. Turn as required to pass obstacles.

Advance up to the point where the Ka-Unit touches the Waveguide.



Carefully apply a small amount of grease to the end of the Waiveguide thread but ensure that nothing enters.



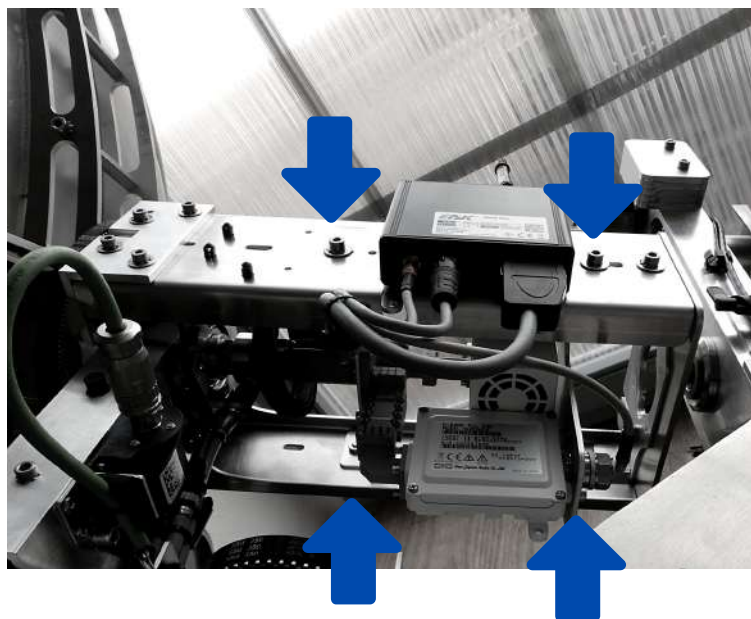
This part is important

Now turn the Waveguide clockwise and push the Ka-unit towards the Waveguide so that the screw connection between Waveguide and Ka-unit is created.

When the thread grips, the Ka-unit is pulled towards the Waveguide by the further rotation of the Waveguide. The lock nut behind the reflector must be held in place by hand the entire time. The lock nut must not rest against the flange of the Ka-unit.

If the Waveguide can no longer be turned by hand, use the size 17 offset wrench. Stop when you feel that the Waveguide has entered completely into the Ka-unit. Do not tighten by force.

Check that there is a small gap between the Ka-unit and the lock nut.

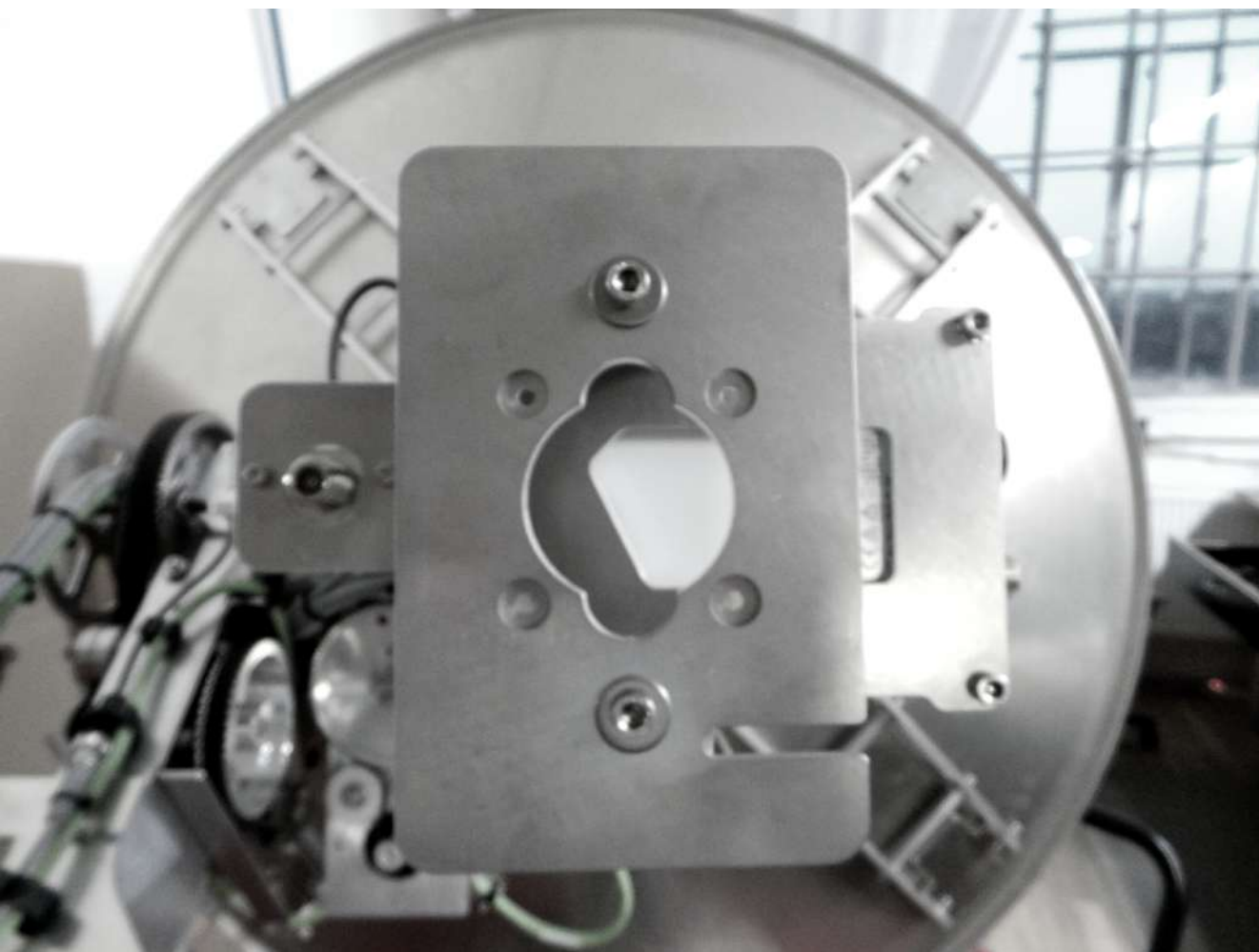


Next, insert the four M6x12 screws, washer and tooth washer (2 top & 2 bottom) that hold the Ka-Unit within the cage. Don't tighten them yet.

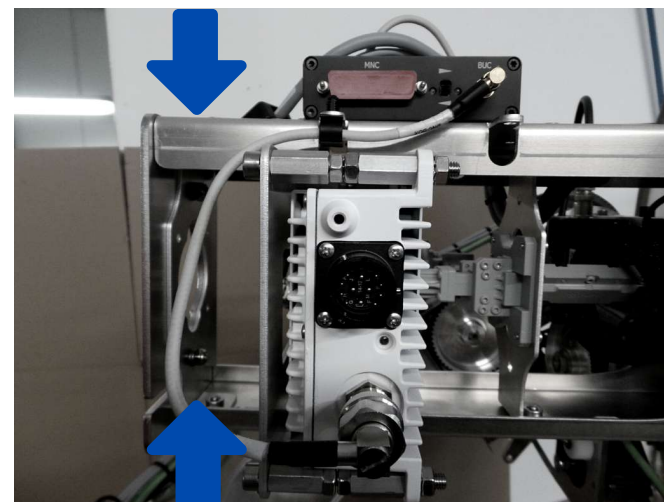
Now fasten the Waveguide firmly against the Ka flange with the offset wrench - but do not overdo it. Then tighten the lock nut in the rear towards the reflector using a wrench. Hold the Waveguide in front but do not turn it any more.

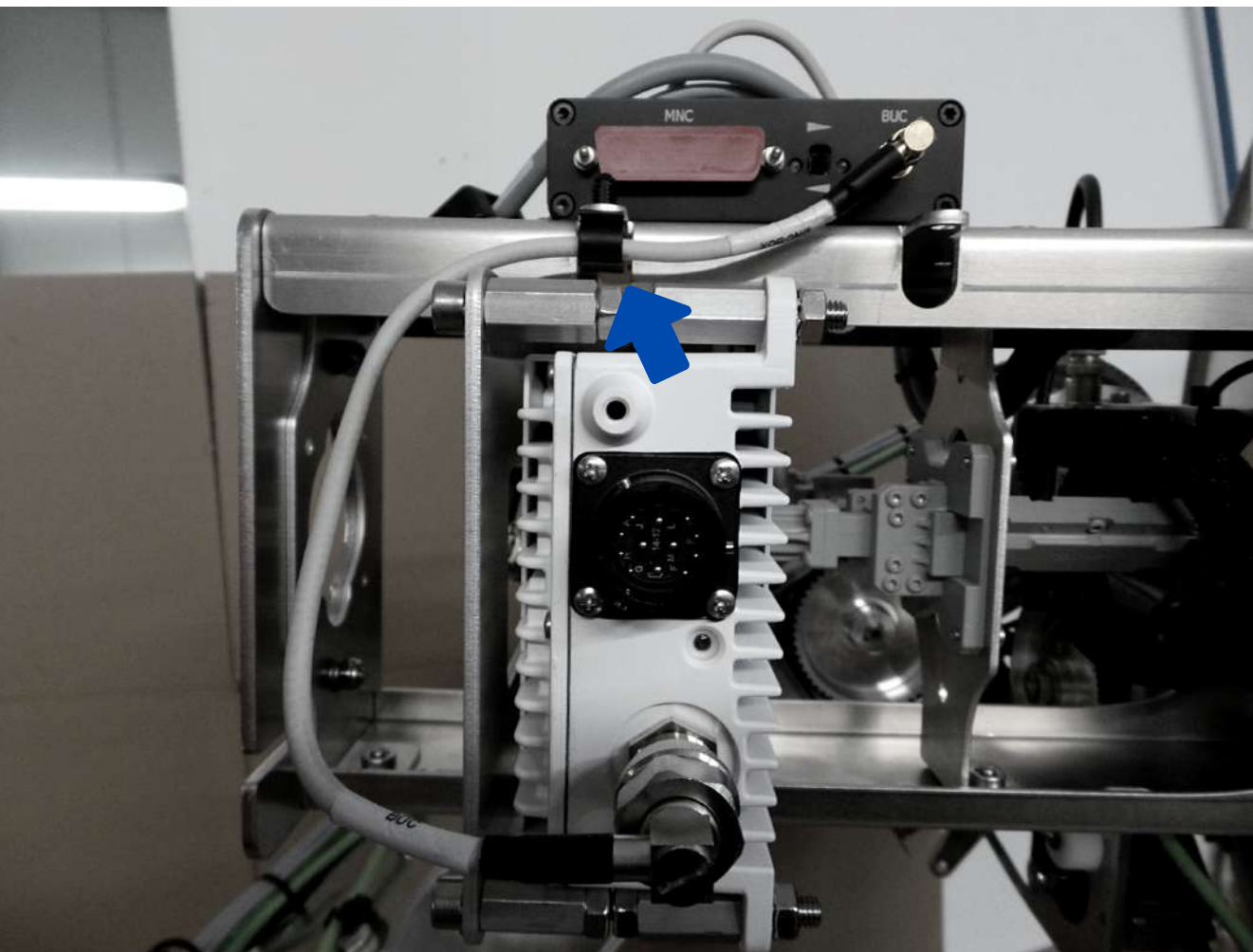


Then tighten the 4 screws to the cage.



Insert weight (E) at the end of the BUC cage and fasten with M6x12 screws, washer & toothwasher from top and bottom.





Connect N-SMA cable
between Bias Box and BUC.
(Don't use too much force.)

Fix in cable clip.



Remove the red cover from the Bias Box and connect the cable (M) to the BUC.

Set switch to down position.





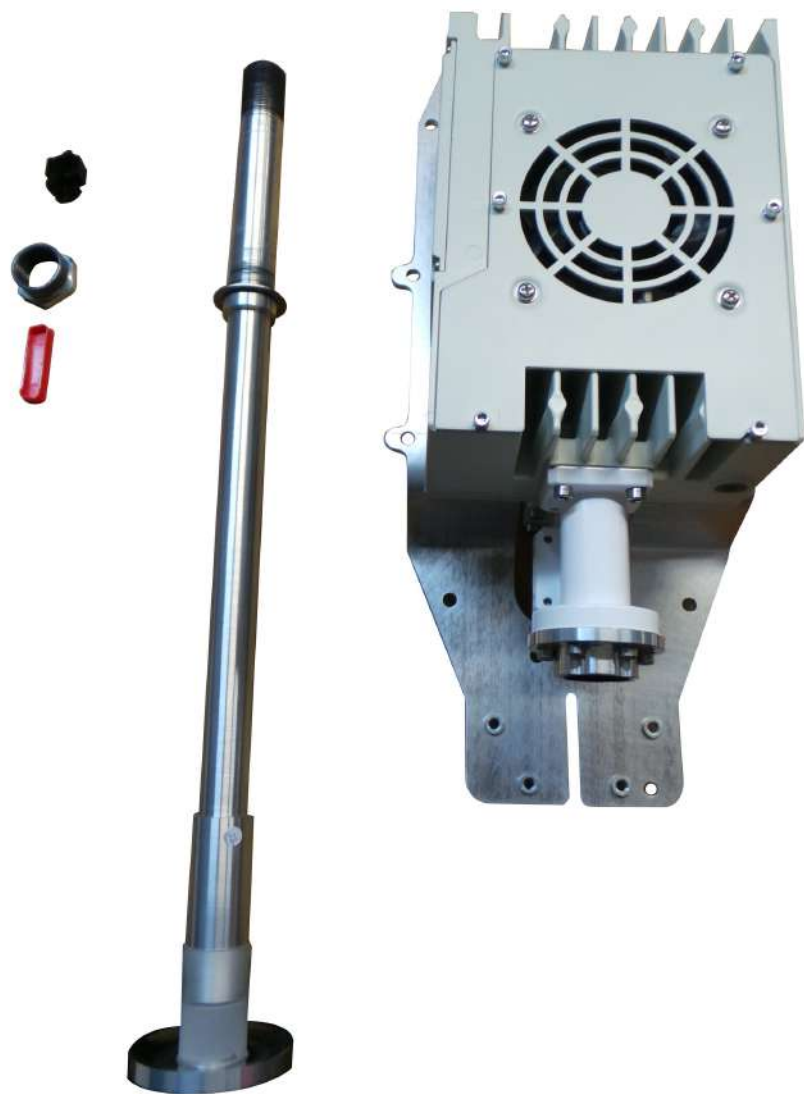
On the rear side of the Bias Box, remove the last cable clip from cable harness and connect the 3 plugs.





Fix the cables with cable ties and move the antenna reflector up and down to check that cables are not rubbing against other parts.

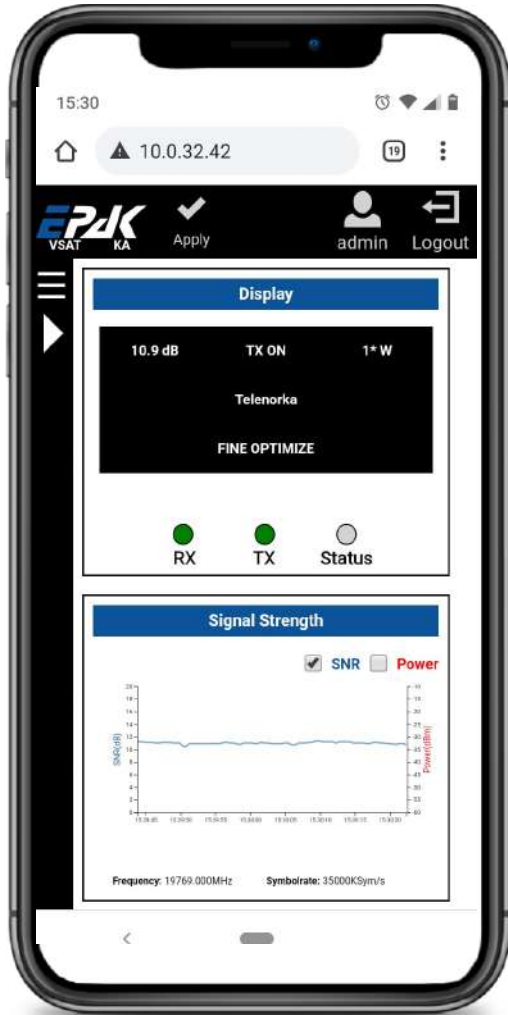




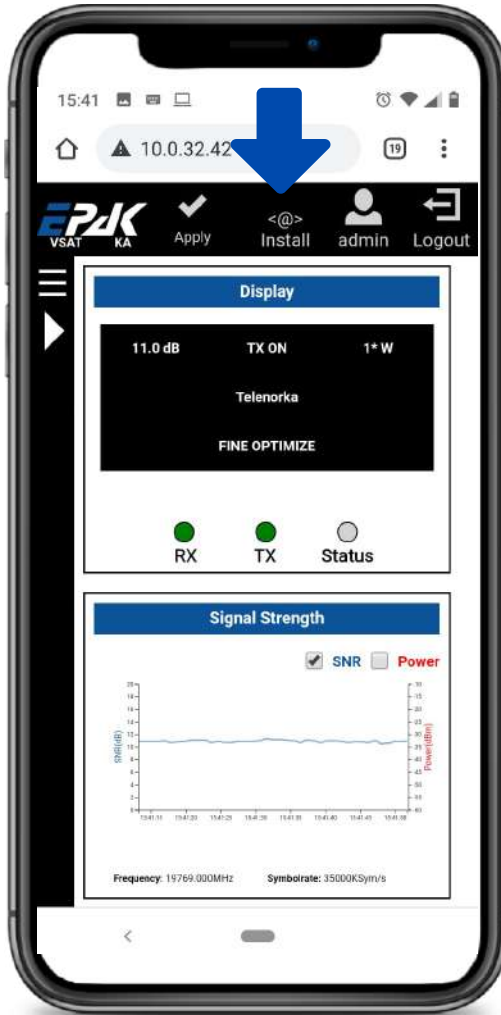
Carefully remove any access grease.

These are the parts you should be left with.

Changing the Settings



Main view Dashboard



Activate Installation Menu by typing "install" & click icon



Change antenna type to "KA"



Status

Dashboard
Network
System

Configuration

Network
LTE
Antenna
Satellites
Versions

Support

Contact

After changing the antenna type, you have to reconfigure the satellites in the "Satellites" menu. Satellites of the previous configuration are still there, but not accessible

In the "Antenna" menu, select the desired beam or control mode. For more information refer to the manual or contact our support team.



That's it. Done!



In case of questions or doubts, give us a call or send a mail.

support@epak.de

+49 (0) 341 - 2120260