6 assembly instructions

!!! important note:

Please read the assembly instructions before starting the installation work!

6.1 Choice of installation location

First select the location where you want to mount the control box, modem, router and SerLan interface.

Please pay attention:

- adequate ventilation of the electronics

- that there are no additional heat sources in the installation compartment

- the ability to lay the connection cables from the roof to the control unit and from this to the rest of the electronics.

6.2 Outdoor unit

When selecting the installation location, make sure that the lines to the external unit are 6m long and that the external unit requires sufficient space to rotate.

Offsetantenna (AutoSat IP 77cm):
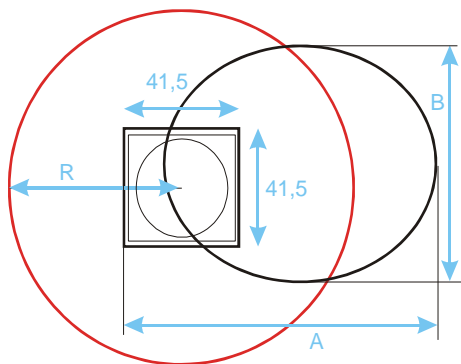
The AutoSat IP has a footprint of 41.5 x 41.5 cm and requires a free space with the specified radius R when searching, as the LNB e.g. in Northern Europe rotates just above the roof. The space requirement in the resting position can be found in the adjacent sketch: A = 85 cm, B = 79 cm, R = 50 cm.

Now look for a sufficient free area on your roof. The immediate vicinity of the selected location must be free of tall objects (higher than 20 cm) that could shade the antenna.

Once you have found this assembly location, please convince yourself again whether the control unit can be reached from this location with a 6m cable length. If not, the installation location of the external unit or the control unit must be relocated.

Please do not extend the cables to the external unit without first consulting us.

> **!!! important note:**
>
> Fasten the external unit with mechanical connection systems so that it is adequately secured against loosening and falling. For roofs in sandwich construction with insufficient fastening options, we recommend a continuous screw connection with an internal counter plate.
>
> **If in doubt, please ask the manufacturer of your vehicle.**

6.3 Installation of the outdoor unit

Please proceed in the following order:

Use **Sikaflex 252** as an adhesive / sealant!

1. Position the external unit with the cable outlet **towards the rear**.

2. Drill two diagonal holes from the base plate of the external unit with a 2.4mm drill.

3. Fix the external unit with two self-tapping screws 3.9x25 on the roof. Tighten the screws lightly. Please note that the aluminum layer of the roof is only thin and the screws can easily be turned over. Now drill the remaining holes.

4. Lift off the external unit and clean the underside and edges of the base plate and the corresponding roof surface from dirt and grease residues. Coat the base plate with an approx. 3mm thin layer of Sikaflex-252 and place the external unit in the intended place on the roof.

5. Before screwing in the screws, please fill the holes with Sikaflex. Now draw a sealing joint around the edge of the base plate.

6. Drill a hole (diameter at least 25 mm) for the cables with the connected plug through the roof.

7. Now push the cables through the roof, clean the roof surface in this area and fasten the cable bushing over the hole with Sikaflex-252 and

3 screws 3.9 x 25. Fasten the cables to the roof. We use cable duct 20x20 mm for this, which is glued to the roof with Sikaflex-252. Now tighten the sealing caps of the PG screw connection so that the cables can no longer be pulled out.

8. You can only mount the antenna when the system is electrically connected and ready for operation, as the antenna arm must be raised from its rest position for this. To do this, switch on the AutoSat IP, wait until the arm is raised sufficiently and press the menu button. **Use the supplied plastic washers for all four nuts.**

This completes the work on the roof.

6.4 Connecting the 19" PRO unit

In this version, all the aforementioned electronic components are permanently installed in a 1 U rack. The 230V AC power supply takes place via the supplied cold device connection cable.

The system is operated in the same way as the previous description via the integrated control panel.

On the front there is a LAN output of the internal router in order to be able to connect further end devices to the front. The WIFI external antenna establishes the connection to wireless end devices.

The RS232 socket on the front is reserved for debugging purposes.