

**SatFi**  
**CONTROLBOX+CONTROLPANEL**  
INSTALLATION MANUAL





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Thank you for purchasing our SatFi automatic satellite dome.

## **GENERAL**

SatFi satellite domes are designed to be used for receiving and watching satellite TV and radio broadcasts on caravans, motorhomes, RV's, narrowboats, passenger coaches, minibuses, trucks and lorries.

## **IMPORTANT SAFETY INSTRUCTIONS**

Do not open the cover of the unit. No user-serviceable parts are inside. Opening the covers voids the guarantee of the antenna. Refer to an authorized dealer/installer service center. Installation of the system should be done by authorized dealer/installer. Installation made by an unauthorized person cancels the guarantee.

Do not connect any unapproved equipment as this can potentially damage the antenna and could void the guarantee.

Please be aware once the antenna is installed ensure you allow for the additional height on the vehicle. Make sure that this height will not cause any risk while moving the vehicle. It is very important to be aware of this height of the vehicle and antenna position when driving down narrow lanes or road.

Once installed it is the owners responsibility to ensure the safety of the antenna.

## **BEFORE STARTING THE INSTALLATION**

When choosing the installation placement of the antenna please make sure that there are no physical solid obstacles ie air conditioning units, roof bars or any other solid object around the antenna that could prevent it from tracking a satellite.

Ensure during installation on the roof surface that it should be clean, smooth and if possible on the centerline according to the vehicle width.

If installing on a curved roof (narrowboat) its important that additional wedges are made/used for supporting the mounting feet. Otherwise, there will be at difference in levels between the front/rear and side feet and the antenna dome base could bend and potentially damage the antenna.

Make sure that the installation roof surface is rigid and strong enough to support the weight of the antenna and not flex.

The RF cable connector of the antenna should be facing the rear side of the antenna according to the moving direction of the vehicle. In this position, the physical effects like rain and wind will be at the minimum level.

Before starting the installing of the antenna, make sure that the surface is dry and clean, on which the antenna will be mounted.

## **TOOL LIST**

- ♦ Rechargeable drill/driver
- ♦ Silicone gun
- ♦ Screwdriver bit
- ♦ 8mm drill bit
- ♦ Cable ties
- ♦ Multimeter
- ♦ Side cutters
- ♦ Roundnose pliers
- ♦ RG6 RF cable
- ♦ De-greasing alcohol
- ♦ Cleaning cloth
- ♦ 11mm wrench
- ♦ Twin core 12VDC cable

## **MECHANICAL INSTALLATION**

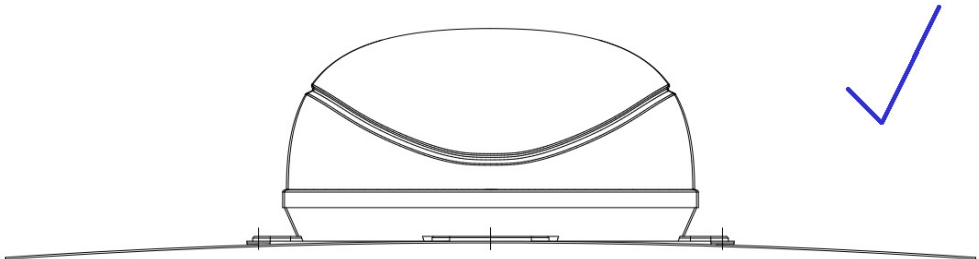
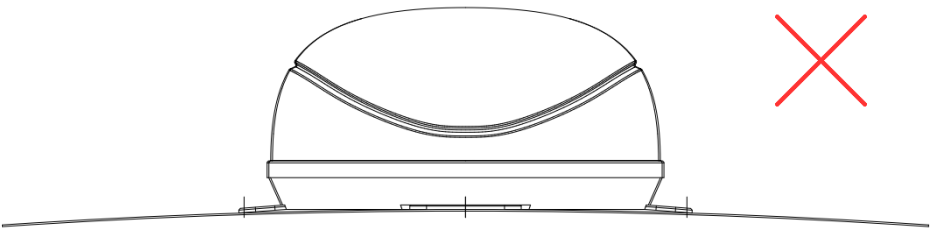
1. Take out the SatFi antenna from the packing box and visually check for any in-transit damage for installing.
2. The installation place should be clean and dry. If required, clean the mounting surface with soapy water and dry with a cloth. After that the mounting surface is cleaned ensure the are is grease free by using a De-greasing alcohol.
3. It is very important to install the SatFi antenna on the top of the vehicle to the most convenient place. The mounting place of the antenna on the vehicle should be flat, not worn or weathered and far away from the physical obstacles like air conditioner or ventilation parts of the vehicle.

SatFi Antenna installation may be done in two different ways.

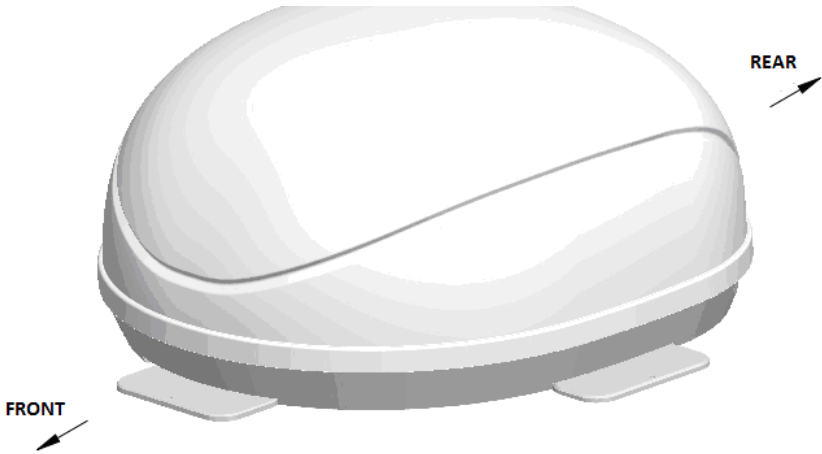
### I. Installation on the vehicle roof

1. SatFi antenna is carried to the top of the vehicle carefully whenever possible remaining horizontal. The SatFi antenna should be placed on the most convenient area on the top of the vehicle. RF connections should be directed to the rear of the vehicle.

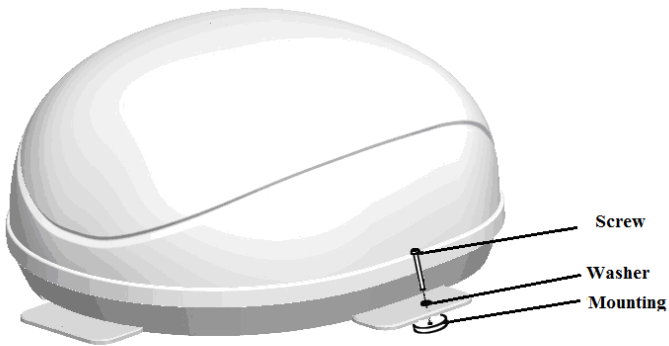
**Caution:** Installation which is made without using wedges/spacers on irregular curved surfaces may cause bending of the antenna base. This may effect the operation of the equipment and could cause permanent damage.



2. If surface of the vehicle is curved, left and right side feet of the antenna are not in contact with the roof surface. In such cases wedges/spacers in the proper width should be used to fill the gaps.

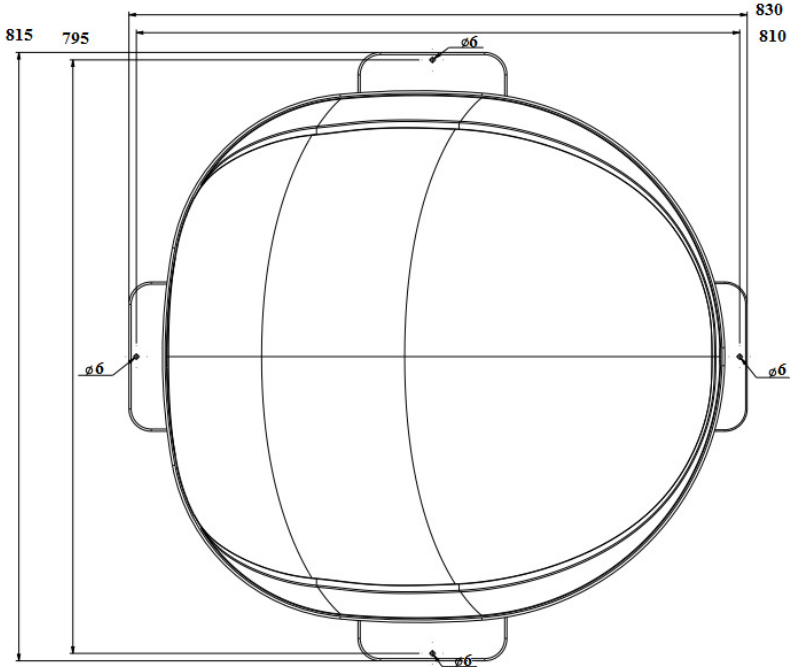


3. 4 pieces of 3.9x32 stainless screws and M5 washers that are included with the antenna. Using the screws with washers should be screwed loosely into the side feet of the antenna leaving sufficient space. The silicon is applied between the side feet and the base and to around the side plates and the bottom of the equipment. After that half tightened screws are tightened firmly without leaving space and the antenna fastened. Finally, the side plates are covered with silicon without covering the screws.



## II. Installation on the vehicle roof

1. Ensure sufficient space for the installation holes and use only A2/A4 stainless steel self screws for fixing antenna feet onto the vehicle roof. We strongly recommend using branded polyurethane adhesive sealant ie Sikaflex 291 or equivalent.

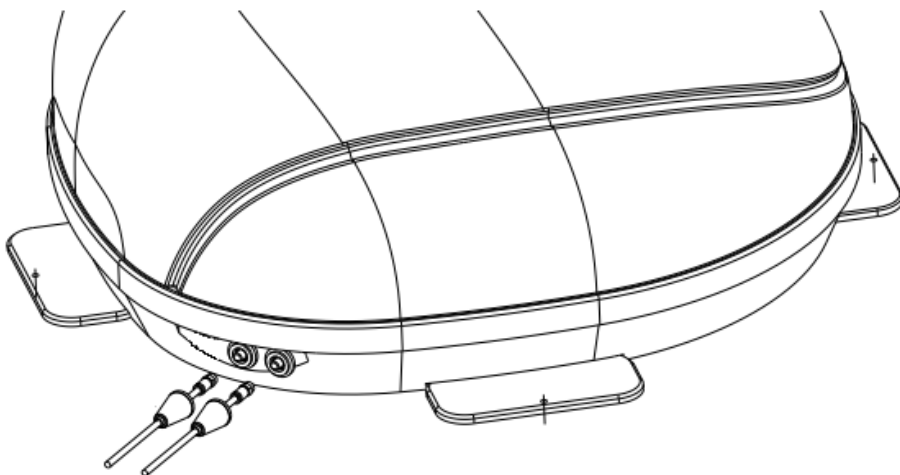


**NOTE: Dimensions are in millimeters**



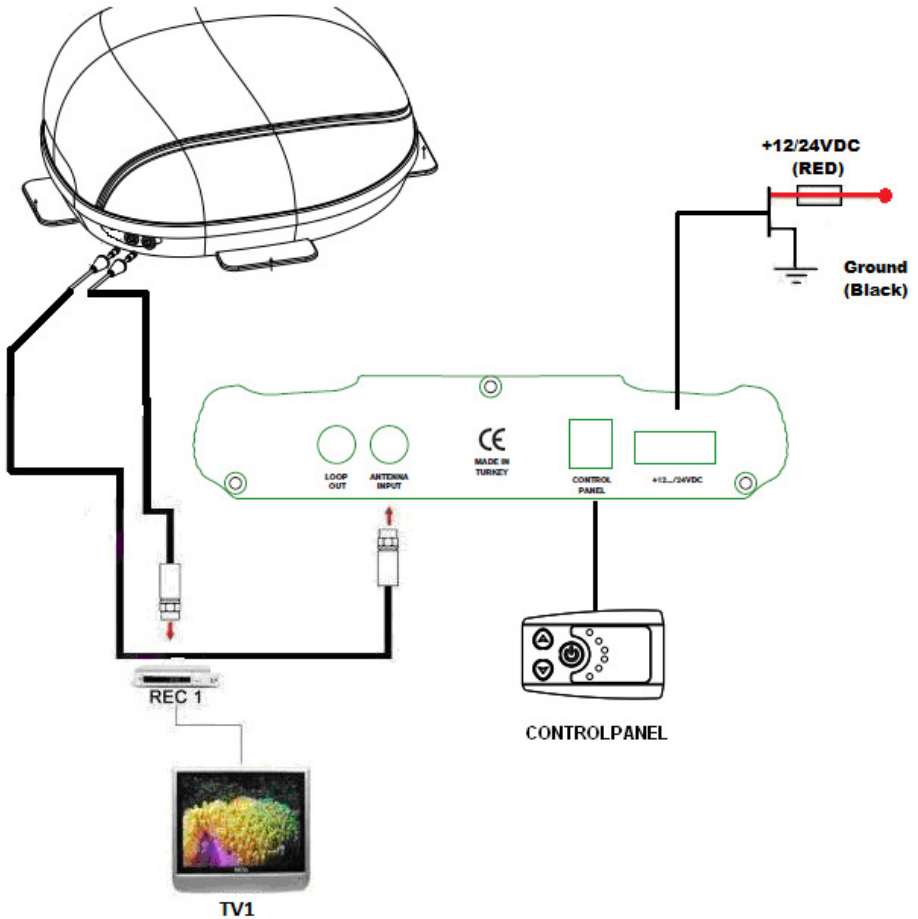
## ELECTRICAL INSTALLATION

1. Always use the supplied RF cable when installing a SatFi antenna or equivalent high specification RG6 cable, the antenna cable should be no longer than 15 meters. Connectors with the plastic moisture guard are for connection onto the antenna unit. Using a 11mm spanner slightly tighten RF connections. Pass the terminated cable ends through the roof gland. Drill a suitable hole through the roof and pass the cables into the inside of the vehicle, seal the hole and fix roof gland with sealant.



2. 12-24V DC supply voltage should be taken from a suitable source we recommend when possible a direct to battery connection. The SatFi control box requires 12-24V fused DC supply voltage using  $2 \times 0.75\text{mm}^2$  twin core cable.
3. The antenna cable that comes from the SatFi Antenna, is connected to the input of the Control Box via F connector.
4. If satellite receiver is available, the connection between control box and satellite receiver is made with loop out cable. Please ensure any satellite receiver equipment is secured for vehicle movement and sufficient air gaps are left to prevent overheating in confined spaces.

## CONNECTION DIAGRAM



## OPERATING OF THE SYSTEM

1. Switch on the control Box via the panel mounted rocker switch the LED's should briefly light up. Now push the control panel standby button. Select required satellite using UP/DOWN keys. You should hear the antenna moving.
2. The control panel LED's will flash slowly during the search process once the selected satellite has been found they will flash rapidly during optimizing of signal.
3. When satellite signal is fully optimized and identified as the correct satellite control panel LED's will remain on. You can now enjoy satellite TV.
4. If you require you can select another satellite using the UP/DOWN keys.
5. Antenna must remain powered to provide continuous satellite TV
6. When you're ready to drive off either press standby button on the control panel or control box ON/OFF switch.





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H08136  
09-05-2017