SATFI RV

INSTALLATION MANUAL

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We thank you for buying the SatFi Mobile Satellite System.

GENERAL

SatFi RV (Vehicle Satellite Receiver System) is designed to be used for receiving and watching satellite broadcasting in road vehicles like motorhomes, caravans, buses, trucks and lorries while these vehicles are parked.

IMPORTANT SAFETY INSTRUCTIONS

Do not open the cover of the unit. No user-serviceable parts inside. Opening the covers invalidates the guarantee of the unit. Refer to authorised technical service. Installation of the system should be done by authorised technical dealer. Installation made by unauthorised person invalidates the guarantee. Poorly fitted products could be at risk of causing severe damage or potential loss of life to other road users.

Do not connect any unapproved equipment to prevent your unit against a permanent damage.

The antenna part of the system which is installed on the vehicle causes an increase in the overall height of the vehicle (in most cases). Make sure that this additional height will not cause any risk while driving of the vehicle. It is very important to be aware of the new overall height especially in relation to obstacles such as low bridges, tolls but also to ensure legislative requirements are met; these matters are the responsibility of the user.

BEFORE STARTING THE INSTALLATION

When choosing the installation place of the antenna make sure that there are no physical obstacles around the antenna that could block to view the satellite.

Installation surface should be smooth and plain and ideally on the centerline according to the vehicle width.

While doing installation on uneven or non-flat surfaces, the bottoms of the mounting plates should be supported. Otherwise, mounting plates will be at different levels and the base could be distorted. Such a case may cause technical problems which would not be covered by warranty.

Make sure that the installation surface is rigid & strong enough to avoid flexing.

The cable connectors of the antenna should be at 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 installation of the antenna, make sure that the surface on which the antenna will be mounted is dry and clean.

SATFI RV MULTI INSTALLATION MANUAL

TOOL LIST

- · Rechargeable drill and drill bits
- · Suitable adhesive sealant from a reliable source such as Dekalin or Sika
- Screwdriver bits
- 2.5mm Steel drill bit
- · 8mm Steel drill bit
- Insulating tape
- Multimeter
- Cutter
- Roundnose pliers
- Pliers
- Alcohol
- Cleaning cloth
- 10mm spanner
- 10mm socket
- 11mm spanner

MECHANICAL INSTALLATION

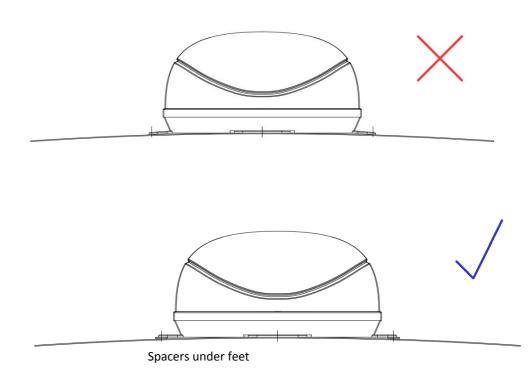
- 1. Take out the SatFi RV Antenna from the packing box and check it visually.
- 2. The installation area should be clean and dry. If required, clean the mounting surface with soapy water and dry with a cloth. Once dry the mounting surface is cleaned with a clean piece of cloth moist with alcohol. (Never use some liquids may cause damage on the surface like thinner, hydrochloric acid or bleach.)
- 3. It is very important to install the SatFi RV Antenna carefully on the top of the vehicle to avoid damage to vehicle and antenna. The mounting place of the antenna on the vehicle should be flat, not worn or weathered and away from the physical obstacles like air conditioner or ventilation parts of the vehicle.

SatFi RV Antenna installation may be done in two different ways.

I. Installation on the vehicle directly

1. SatFi RV Antenna is carried to the top of the vehicle carefully. SatFi RV Antenna should be placed on the most convenient area on the top of the vehicle. Cable exits; (F-connectors) on it should be directed towards the rear of the vehicle.

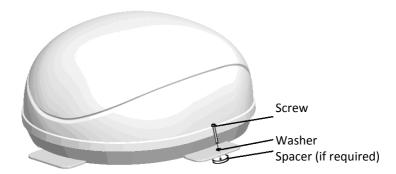
Caution for curved mounting surface: Installation which is made without using spacers on curved surfaces may cause bending of the antenna base. This case may effect the operation of the equipment and may cause permanent damage which would not be covered by warranty.



2. If surface of the vehicle is curved, left and right mounting plates of the antenna are not in direct contact with the surface spacers in appropriate thickness should be used to fill the gaps and properly support the mounting plates.

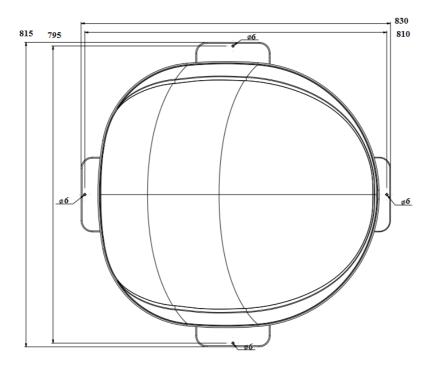


- 3. Mark out the mounting feet positions on the roof with marker, then move antenna to one side and apply adhesive to the marker areas where the feet will be placed.
- 4. Drill pilot holes for the 4 pieces of 3.9x32 stainless screws and M5 washers that are provided with the antenna are screwed one by one. The screws with washer are screwed loosely from the mounting plates of the antenna to the base by leaving some space. More adhesive is applied around the mounting plates to prevent water penetrating any gaps and freezing which would lift the feet. After that the half tighten screws are tightened firmly without leaving space and the antenna fastened. Finally, seal the tops of the screws.



II. Installation on the Roof Rack

1. The installation holes on the Roof Rack should be suitable with the measures are given in the following figure.

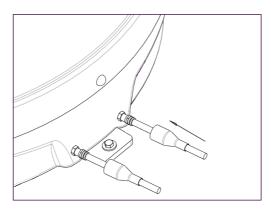


NOTE: Dimensions are in millimeters

2. SatFi RV Antenna is carried on the Roof Rack of the vehicle carefully. F-connections should be directed to the rear of the vehicle.

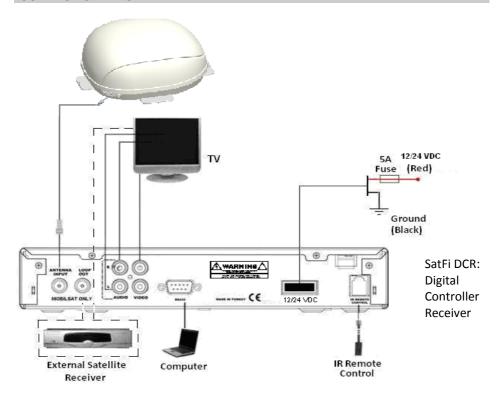
ELECTRICAL INSTALLATION

1. SatFi RV Twin is a model with 2 separate outputs. Antenna cables are carried from the top of the vehicle to the inside properly via a suitable gland. The antenna cables should not be longer than 15 meters. Lay the cables carefully to route to your suitable location to place the gland (checking the interior position and possible hidden cables and pipes within the roof). If the supplied cables are shortened or replaced then ensure the F-connector used is high quality compression or crimp type – screw on fittings are not suitable for a mobile environment. The F-connector on SatFi RV antenna side is connected to the female F-connector socket on the antenna. The F-connector guard on the antenna cable is fixed by pushing over the F connector. This process is repeated for the other antenna cables. TAKE CARE TO MARK THE CABLES AT BOTH ENDS – if you connect the wrong cable to the control unit (DCR) you WILL damage the LNB and this will not be covered by warranty.



- 12-24V DC supply voltage should be taken from the proper point of the vehicle for supply voltage of the Control Box. 12-24V DC supply voltage is carried by 2x0.75mm² power cord and Control Box connection is made. If required, the fuse may be upgraded.
- 3. One of the antenna cables that come from the SatFi RV Antenna output (CBU) is connected to the input of the Control Box (DCR) via F-connector. The other antenna cable that come from the SatFi RV Antenna output (RF1) are connected to the inputs of the one receiver via F-connectors. For Sky+ or Freesat+ PVRs connect RF1 (antenna) to LNB1 of PVR, LNB2 should be connected to DCR Loop. Loop signal only available when SatFi is powered ON so leave on when wanting to record.
- 4. Audio and video connections made with RCA cable.
- 5. After the electrical connections of the Control Box and Receivers are completed, Control Box and Receivers should be fastened securely.

CONNECTION DIAGRAM



OPERATING OF THE SYSTEM

- **1.** SatFi RV is used only while parked.
- 2. Switch on the Control Box. Check if the system is operating by listening to the mechanical sound of the antenna. If the system has clear line of sight to the satellite (and is within it's footprint) it will search, fine-tune & lock within 2-4 minutes depending upon how far you have travelled since last operation.
- The power voltage of the Control Box should be measured again using a multimeter and checked to ensure the supply voltage is not less than the 12V DC under operating conditions.
- 4. Switch on the any additional Settop boxes if fitted. Check different channels and see if the video and audio is coming properly. Settop box using SatFi DCR "LOOP" will take control of LNB once system is locked and the settop box is active. Loop signal only available when SatFi is powered ON.
- 5. SatFi DCR is a fully functional Free-to-air satellite receiver which is worth connecting to the TV (via RCA or RCA-Scart) even if you intend only to use an external receiver for the TV channels you normally watch as settings and menus can be accessed using the DCR on-screen display.