

# SAILOR 6300 MF/HF Transceiver Unit & Antenna Tuning Unit 150/250/500W

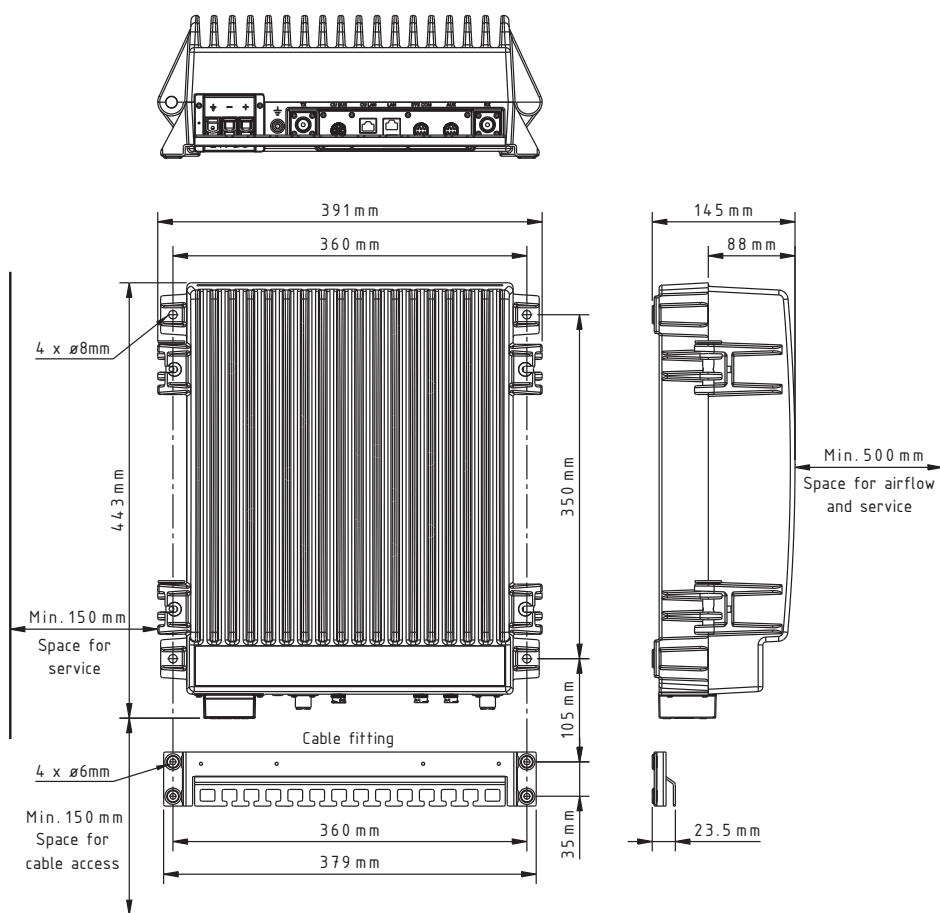
## Installation guide

## Disclaimer

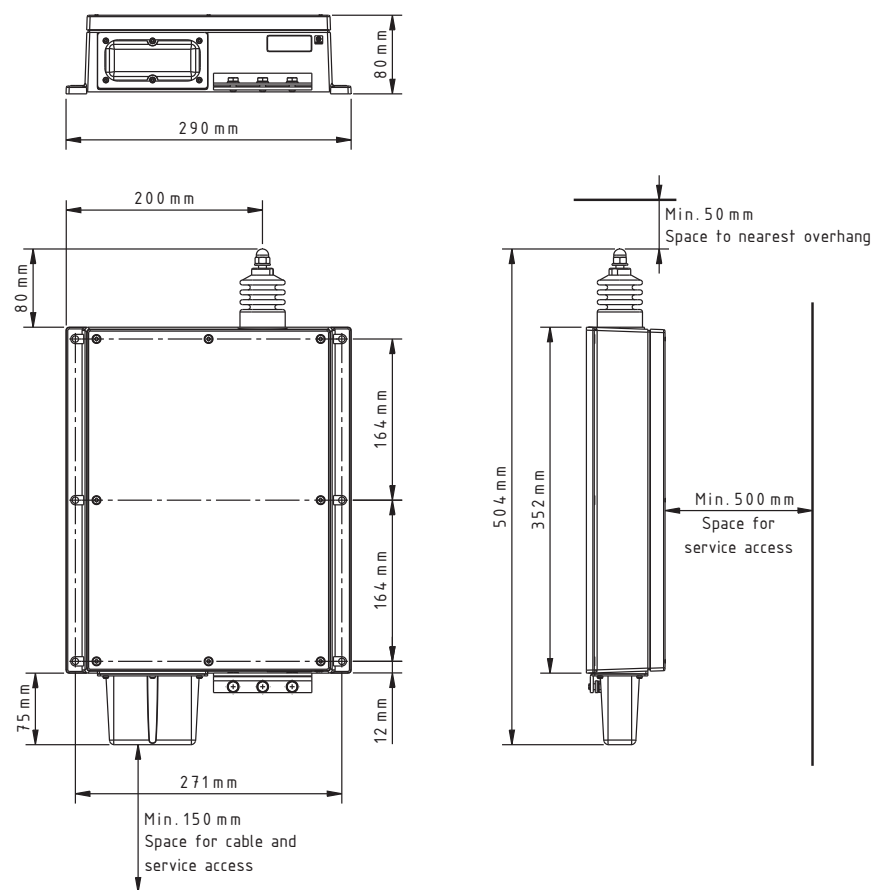
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## How to install the Transceiver Unit 150/250W



## How to install the Antenna Tuning Unit 150/250W



## How to connect the antenna

In general a 12 metres antenna installation is preferred and can be made using an 8 metres whip and 4.5 metres feeder or a 10 metres whip and 2.5 metres feeder. In both cases the whip should be mounted on a pole providing sufficient height to have the Antenna Tuning Unit mounted such that it allows for the feeder to be erected at an angle of 45 to 60 degrees, creating a combined 12 metres vertical antenna system.

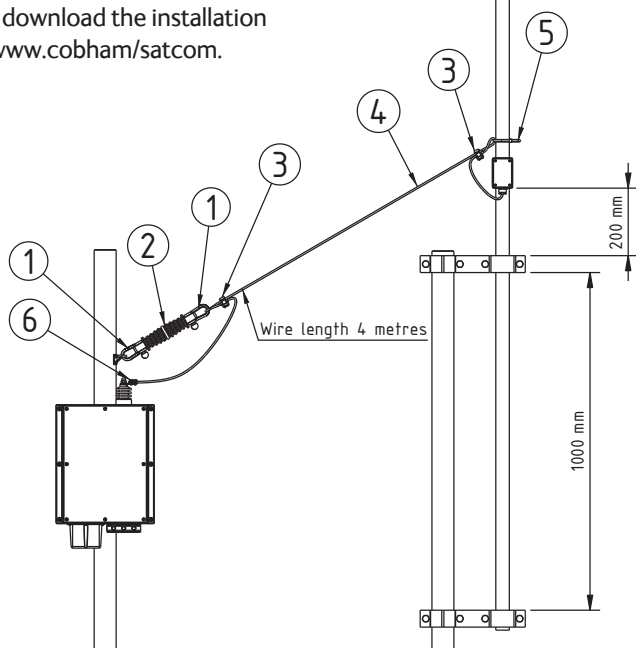
The feeder wire is terminated at the antenna horn at the top of the Antenna Tuning Unit. Use a supporting insulator near the ATU to carry mechanical stress from the feeder wire. Use a short flexible part of the feeder wire between the supporting insulator and the ATU horn in order not to apply mechanical stress to the antenna horn.

To maximize the radiated power and avoid flash over, keep distance to metal parts as long as possible, preferable more than 100 mm. Use a short direct ground connection from the ground clamp at the bottom end at the Antenna Tuning Unit to nearest suitable metal ground plane.

It is recommended to use the ATU mounting bracket for the physical fitting of the ATU.

For further information, download the installation manual 98-144591 at [www.cobham/satcom](http://www.cobham/satcom).

Optional accessories:  
Antenna connection kit  
part no 405301A-905.



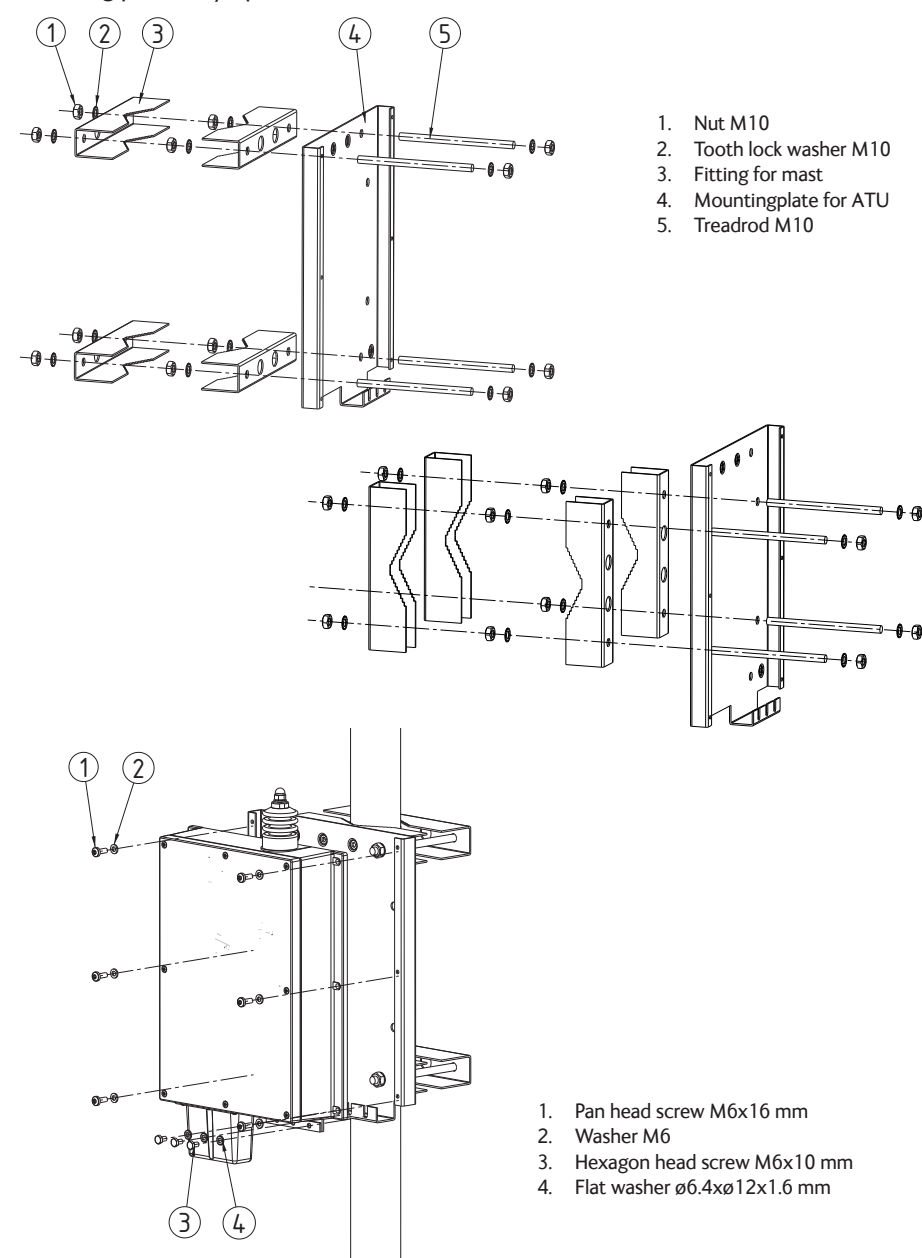
1. Shackle
2. Isolator
3. Wire clamp
4. Wire
5. Cable tie
6. Wire lug

## How to install the Antenna Tuning Unit mounting bracket

Optional accessories:

Mounting plate and fittings for mast part no 737589.

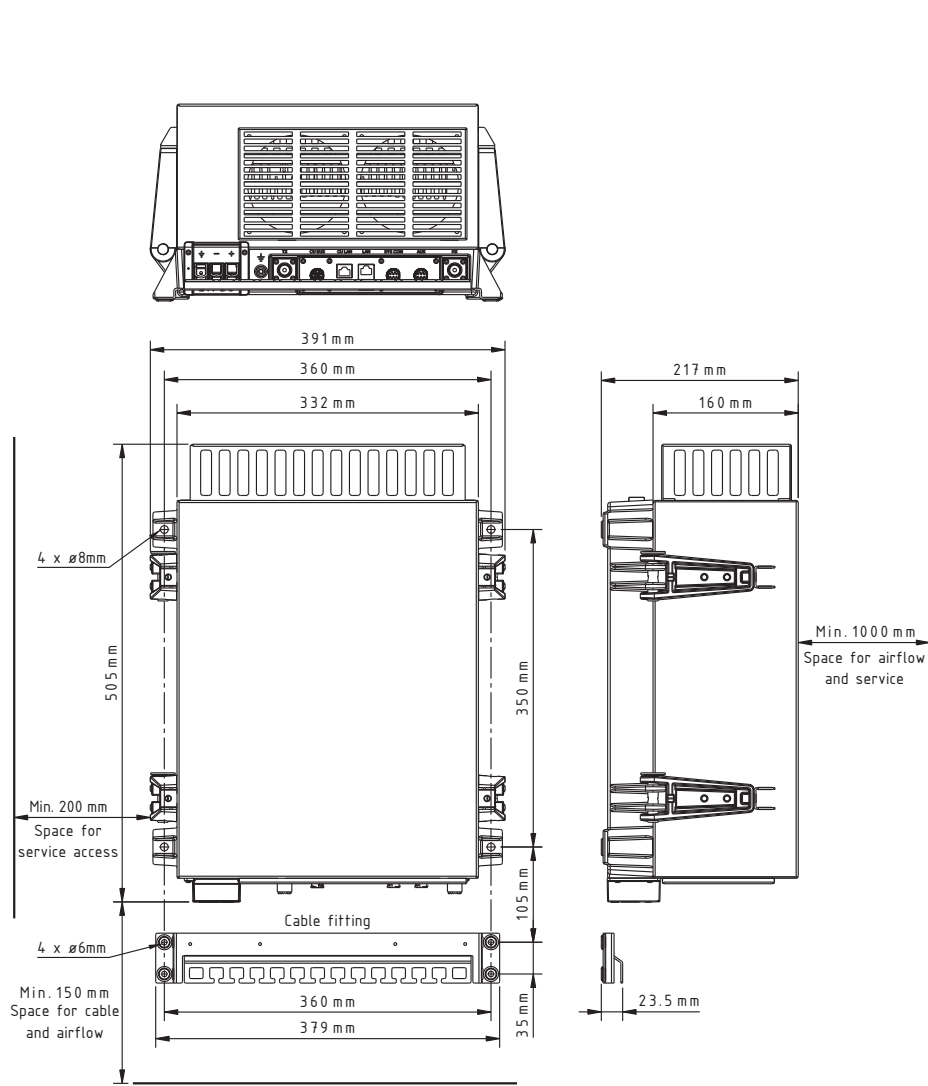
Mounting plate only - part no 737588.



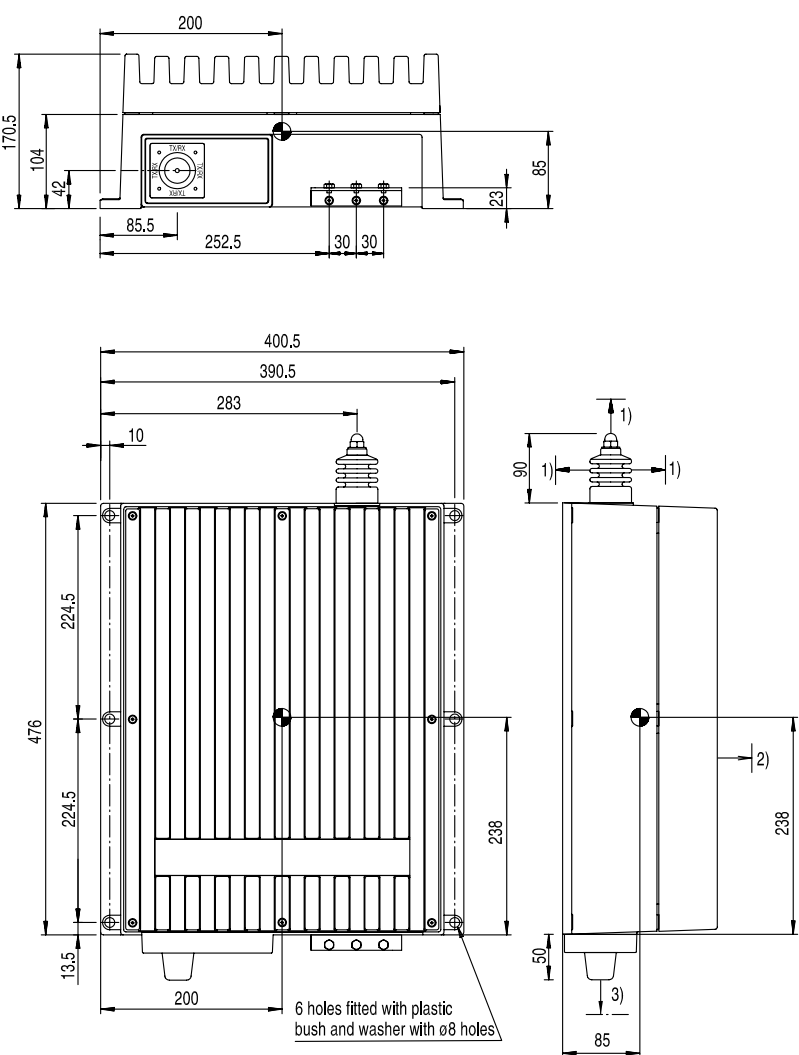
1. Nut M10
2. Tooth lock washer M10
3. Fitting for mast
4. Mountingplate for ATU
5. Treadrod M10

1. Pan head screw M6x16 mm
2. Washer M6
3. Hexagon head screw M6x10 mm
4. Flat washer Ø6.4xØ12x1.6 mm

How to install the Transceiver Unit 500W

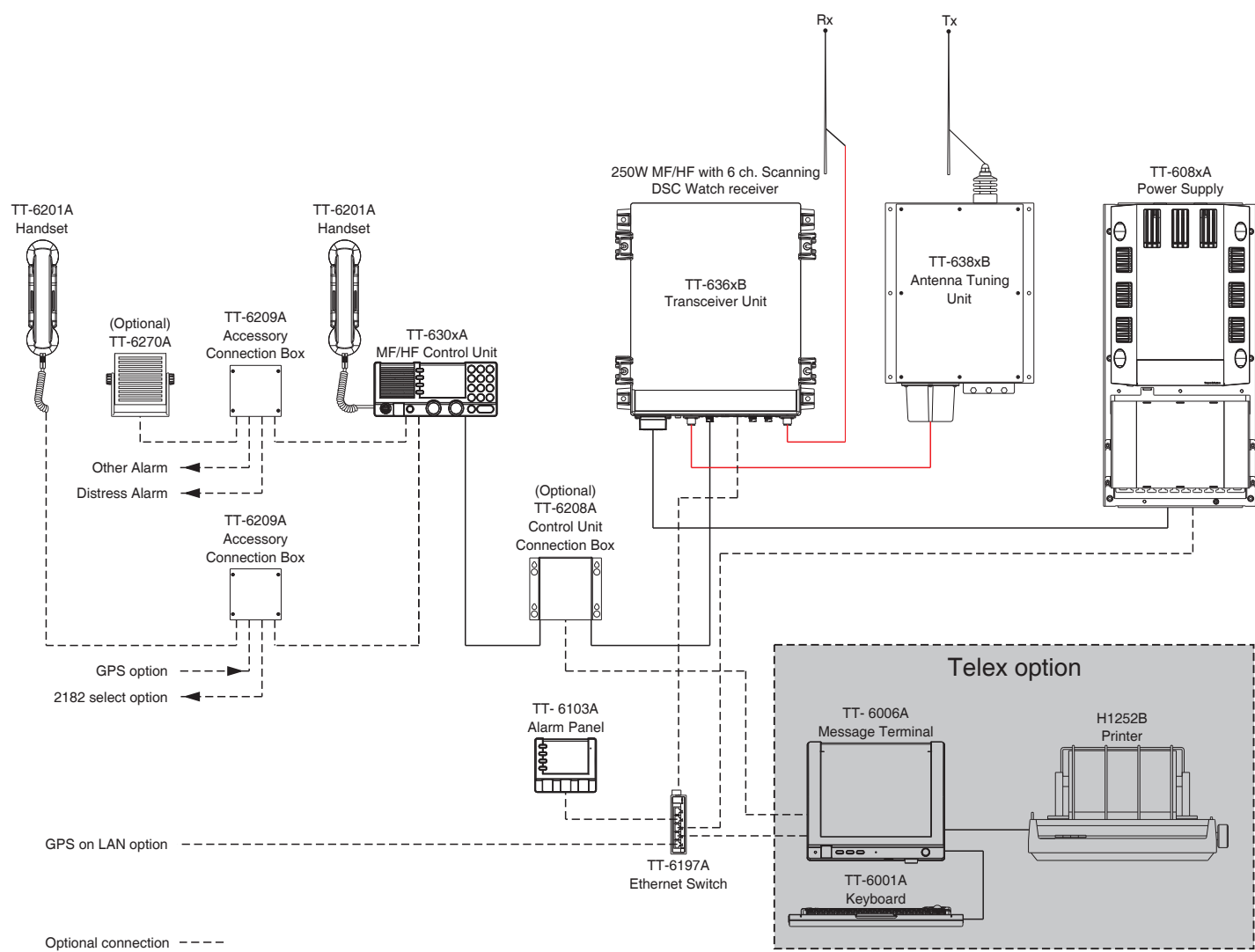


How to install the Antenna Tuning Unit 500W



1. Distance to metal constructions: min. 150
  2. Space for service access: min. 500
  3. Space for cable and service access: min. 200
- Dimensions are in mm

System configuration - Example



For further information, download the installation manual 98-144591 at [www.cobham/satcom](http://www.cobham/satcom)