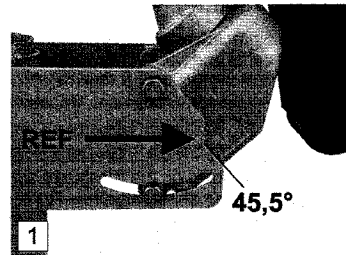


4. How to find out the elevation angle of the Rotor

- 4.1 Find out your own geographical position on the map on page 72-84, note the latitude value and set the rotor angle to this value (fig.1).

Example: - Venice 45,5° Latitude NORTH → REF= 45,5°



5. How to find out the elevation value of the dish

- 5.1 With the same latitude value, calculate the elevation of the dish according to the following formula:

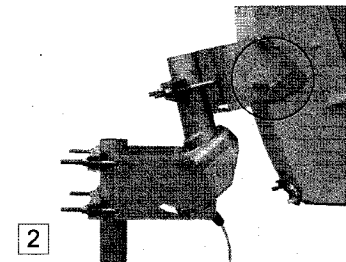
$$\text{Degrees of dish elevation} = P - (60 - \text{latitude})$$

P = degrees of dish elevation for fixed mount given by the manufacturer.

Example: - Latitude Venice = 45,5°

P (dish elevation given by the manufacturer) = 37,6°

Degrees of dish elevation = 37,6 - (60 - 45,5) = 23,1° (fig.2)



6. Dish pointing

- 6.1 To point your dish easily, refer to the satellite the nearest to your longitude (see map on page 72-84).

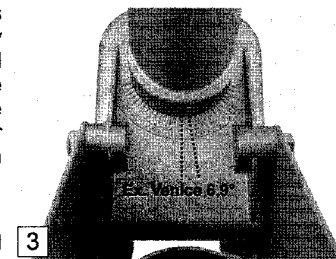
- 6.2 Calculate the difference between the reference satellite and your position considering that:
- positive values = Eastwards moving negative values = Westwards moving.

Example 1: - Installation VENICE (longitude 12,3° East) - Reference satellite ASTRA (longitude 19,2° East)
 $19,2 - 12,3 = +6,9$ The position of ASTRA from Venice is: 6,9° EAST (see fig. 3).

Example 2: - Installation VENICE (longitude 12,3° East) - Reference satellite Eutelsat F2 (longitude 10° East)
 $10 - 12,3 = -2,3$ The position of EUTELSAT from Venice is: 2,3° WEST.

- 6.3 With the receiver's remote control (see receiver's instructions manual - paragraph dedicated to the motor), move the rotor by short impulses Eastwards or Westwards to reach the calculated value. To coordinate this operation it is necessary that the receiver is near the dish or that somebody can assist you: while the first one uses the remote control near the receiver, the other one will inform when the dish has reached the correct position on the graduated scale of the rotor.

Example: VENICE - around 6,9° EAST (for Astra) - fig. 3



- 6.4 Disconnect the cable going to the receiver from the rotor and connect the field-strength meter. Unscrew the bolts that hold the rotor to the main pole and then rotate EASTWARDS or WESTWARDS both the rotor and the dish locked together (fig. 4 - Bolts) until you obtain the best reception quality; tighten then again the bolts. If you cannot use a strength field meter, you need anyway to place a TV near the dish to check the image definition. Connect the rotor again.

- 6.5 Store the sat position (see receiver's instructions manual - paragraph dedicated to the motor), then operate a recalculation "see paragraph 9.2" (if your receiver enables this function); otherwise find out the other sat positions and store them one by one. If the previous steps have been correctly carried out, you should now be able to see all satellites including the lower East and West orbital ones.

