

# URANIA 2 V9331 - PANDORA V8001 - RHEA V8100



## SATELLITE TV ANTENNAS MARINE

USER AND INSTALLATION MANUAL

**GLOMEX**<sup>®</sup>  
*The best in marine antennas*



GL00002

SWIB

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SWIB

## 1. FOREWORD

### 1.1 DELIVERY LETTER

Welcome: with the installation of this antenna, the world of satellite television comes on board your boat.

This manual has been drafted in order to help you with the correct installation and operation of the antenna.

### 1.2 ANTENNA IDENTIFICATION

When calling GLOMEX or an authorized Service Centre, always provide the **serial number** and the **model** of the antenna, shown on the second page of the manual, on the packaging, on the backside of the dish, under the control unit and under the feeder.

### 1.3 WARRANTY

GLOMEX guarantees the satellite antenna series URANIA 2 V9331, PANDORA V8001 and RHEA V8100 against conformity defects for a period of 24 (twenty-four) months from the date of shipment.

Warranty is intended as the repair or replacement of the equipment showing conformity defects when entering the sales contract, with no charge for the materials.

In case of conformity defects, the customer is entitled to the replacement of the goods with no charge.

The warranty is only valid if the product **comes with a valid proof of purchase**, (receipt or invoice).

The non-conforming product must be sent back to a Service Centre or authorized retailer, who will forward it to:

**GLOMEX S.r.l.**  
**Via Faentina 165/G**  
**48124, Ravenna (Italy)**

along with all the accessories supplied at purchase.

The warranty is provided by:

**GLOMEX S.r.l.**  
**Via Faentina 165/G**  
**48124 Ravenna (Italy)**

The serial number must neither be erased nor made illegible, otherwise the warranty will be voided.



### WARNING

Conserve the installation and user manual with care! Losing the serial number makes the warranty null and void!

The warranty does not apply in case of damage due to carelessness, use or installation not compliant with the instructions given, tampering, product or serial number modification, damage due to accidental causes or to the buyer's negligence.

Moreover, warranty does not apply in case of damage consequent to connections of the equipment to different voltages than those indicated or to sudden voltage variations of the network the equipment is connected to, as well as in case of damage caused by leakage, fire, inductive/electrostatic discharges or discharges due to lightning, use of cables different to those provided, overvoltages or other phenomena not related to the equipment.

The parts subject to wear consequent to use such as connection cables, driving belts, connectors, external parts and plastic supports are covered by a one-year period warranty.

The warranty does not include: periodical checks, software updates, product settings, maintenance.

After the expiration of the warranty period, the technical support activities will be carried out charging the customer for the replaced parts, the labour costs and freight charges, according to current rates.

**The equipment will be replaced or repaired under warranty only and exclusively on Glomex quality department's approval.**

Should any dispute rise, the place of jurisdiction will exclusively be Ravenna (Italy).

### 1.4 GENERAL SAFETY INSTRUCTIONS

Carefully read the instructions given and follow the precautions indicated to prevent potential hazards and to safeguard your health and safety, before carrying out any installation and maintenance operation.

This manual contains the following indications:

 **WARNING**

This symbol warns against potential damage to the equipment which could involve the operator's safety.

 **DANGER**

With specific warnings against potential dangers for the safety of the operator or other directly involved persons.

Failure to comply with the instructions preceded by the above-mentioned keywords (**WARNING** and **DANGER**) can cause serious accidents or even the death of the persons involved.

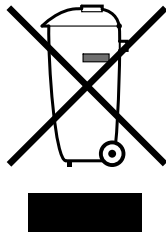
Moreover, in this Manual, some instructions are given with text in italics, preceded by the words **NOTE**.

The information and specifications given in this manual are based upon the information available at the moment it is written.

In case of doubts, do not hesitate to contact GLOMEX S.r.l.

### 1.5 ENVIRONMENT

Do not throw the appliance away with the normal household waste at the end of its life, but hand it in at an official point for recycling. By doing this, you will help preserve the environment.



GL00024

Fig. 1

## 2. PRODUCT DESCRIPTION

URANIA 2 V9331, PANDORA V8001 and RHEA V8100 are the new parabolic satellite TV antennas suitable for any type of sailboat and motorboat.

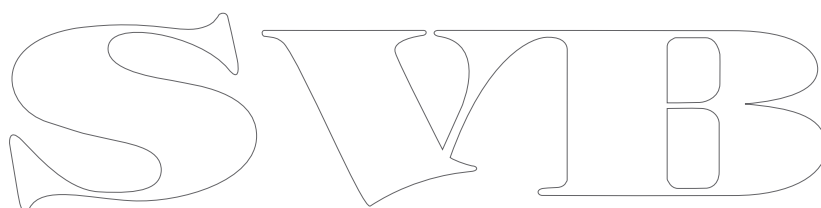
With their reduced dimensions and contained energy consumption, they represent the ideal choice for TV watching on board, as they offer the best compromise between a compact shape and a high performance level.

They are gyro-stabilized antennas, equipped with new-generation, high-precision electronic gyro-stabilizers and very quiet electric drives.

They may be used at dock as well as when cruising and when riding the anchor. Thanks to their rotating joint, no winding of the coaxial cable is needed.

They are provided with NIT (Network Identification Table) satellite recognition. Their software can be updated by SD card, to be inserted into the relevant slot on the control unit side, in order to have a constantly updated SAT TV antenna over time.

These antennas cover the whole of Europe and the available pre-loaded satellites are Astra1, Astra2 and Hotbird.



### 3. CONTENTS

The satellite antenna is sent packed in a cardboard box and sealed with the GLOMEX "SAFETY SEAL" hoop, which has the function of CONTENT WARRANTY seal.

Upon receipt, check that:

- the packaging is whole and the warranty hoop is present;
- the supply matches the order specifications;
- the antenna and its accessories are not damaged.

In case of damage or missing parts, immediately inform the Retailer, if possible with appropriate photos.

The table below lists the components contained in the package, indicating the quantities and the GLOMEX code (if provided).

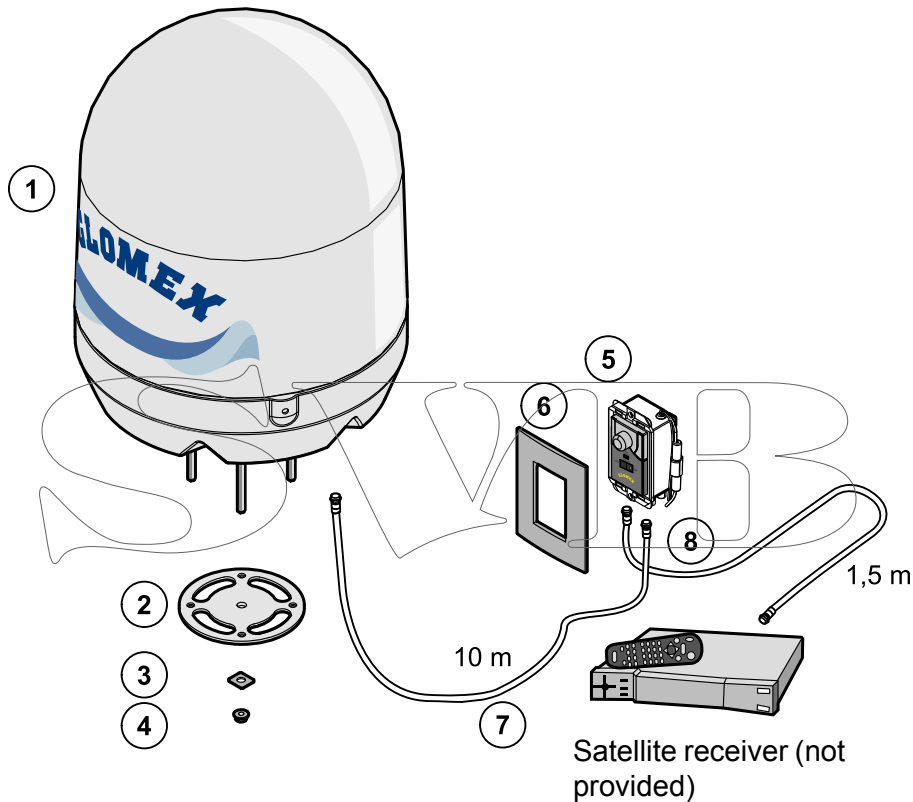


Fig. 1

URANIA 2 V9331 - PANDORA V8000 - RHEA V8100	
Component	GLOMEX code
URANIA 2 V9331 antenna unit (1)	3.010.0014
PANDORA V8001 antenna unit (1)	3.010.0013
RHEA V8100 antenna unit (1)	3.010.0024
Base seal (2)	4.010.0415
Fastening reinforcements (4 pcs) (3)	4.020.0247
M8 self-locking nuts (4 pcs) (4)	4.100.0019
Control unit (5)	4.120.0105
Frame for built-in installation (6)	4.010.0008
10 m cable for antenna - control unit connection (7)	V9140/10
1.5 m cable for control unit - satellite receiver (8)	V9143



### 3.1 OPTIONAL ACCESSORIES (NOT INCLUDED) TO USE GLOMEX ANTENNAS

To be able to use your new GLOMEX satellite antenna for boats, you will have to procure or buy also:

- a TV set;

- a satellite receiver for channel selection.

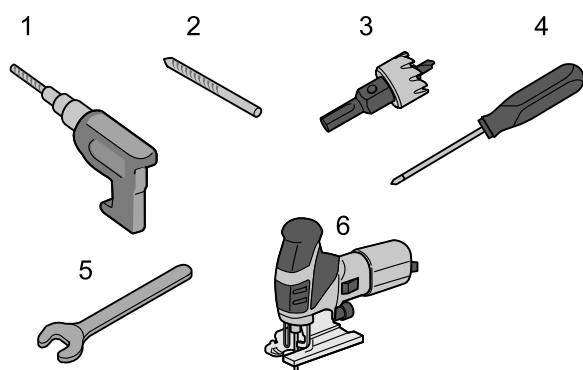
The table below lists all the GLOMEX optional components, with relevant code.

Optional accessory	GLOMEX code
Satellite decoder i-CAN 1110SV TIVUSAT 230 VAC - 12 VDC	V9193
XDome terrestrial digital - satellite HD combi decoder (DVB-T + DVB-S + DVB-S2) compatible with SKY ITALIA - 230 VAC	V9192
Line amplifier	V9115
SD card with new satellite	4.120.0077
SD card with software update	4.120.0078
Stainless steel support 0°- 5°	V9500
Twin radome	V9331 TWIN/V8001 TWIN/V8100 TWIN
Radome painting - RAL colour chosen by the customer	SATPAINT
Line amplifier	V9115

### 4. NECESSARY TOOLS FOR ASSEMBLY (NOT PROVIDED)

Procure all tools and materials listed below. They will be necessary to complete installation.

- Electric drill (1).
- 8.5 mm drill tip for radome assembly (2).
- 28 mm hollow mill for drilling the passage hole for the antenna connector cable (3).
- Phillips screwdriver (with adequate dimensions for control unit installation) (4).
- 11 mm wrench (for the installation of the coaxial cable connectors) (5).
- Reciprocating saw (to create the compartment in case of wall built-in installation of the control unit; use the template provided on page 51) (6).



GL00102



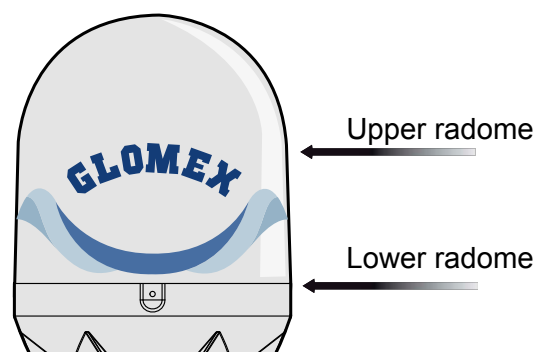
#### WARNING

Plan the whole installation before proceeding! Please consider the lay-out of the various components, the distance between them, the length of the various cables and the accessibility to the equipment once it is installed.



#### WARNING

Always lift the antenna from the lower radome and never from the upper radome or any part inside it.



GL00054

Fig. 2

## 5. INSTALLATION

Before proceeding with the installation, please respect the following guidelines:

- please remember that the best position for the satellite TV antenna is in the middle of the boat, in the lowest possible position.
- minimize obstruction. The antenna requires a clear view of the sky in order to receive satellite TV signals. The fewer the obstacles, the better the system operation. Any foreign body (flags, antennas, radar antennas, sailboat masts, cranes, bridges, etc.) between the antenna and the satellite obstructs the signal and prevents correct receipt.

- make sure that the mounting surface is wide enough for the antenna base to be installed.
- make sure that the mounting surface is resistant and rigid enough to support the weight of the antenna and the vibrations which could occur.
- do not install the antenna near speakers or magnetic sources. In case it is not possible, it is necessary to compensate the magnetic source, paying attention not to interfere with the on-board compass.
- the antenna requires a lifting angle between  $-9^\circ$  and  $81^\circ$  to receive satellite signals (Fig. 3).

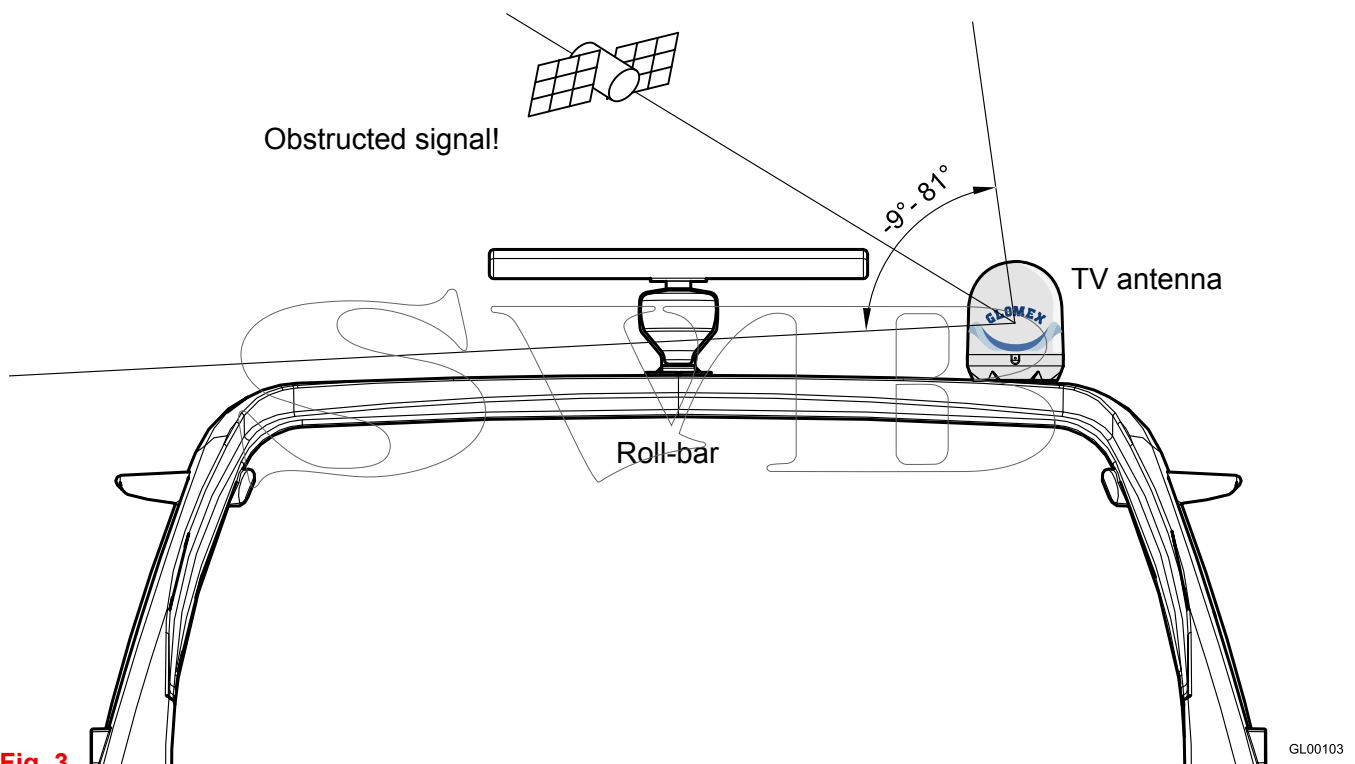


Fig. 3

### Typical antenna lifting

NORTHERN EUROPE ( $\approx 15^\circ$ )

CENTRAL EUROPE ( $\approx 35^\circ$ )

SOUTHERN EUROPE ( $\approx 50^\circ$ )

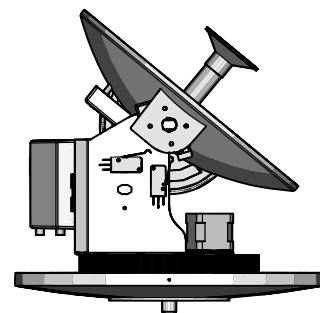
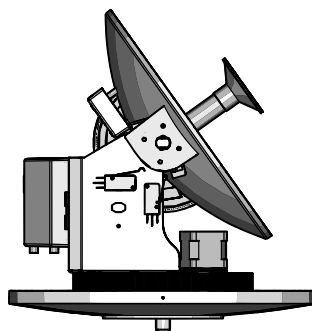
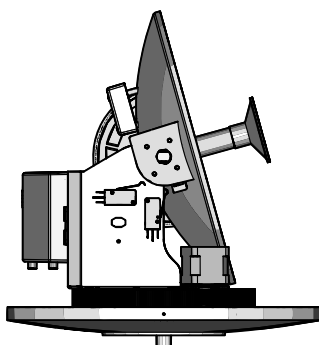


Fig. 4

GL00093

- please also consider the position of the antenna with respect to the position of all various attachments or wiring harnesses inside the boat.
- the control unit should be mounted in a convenient position for the adjusting operations. It should be near the receiver/TV-set unit, so that the TV screen may be watched while carrying out the operations on the control unit.

We recommend not to install the antenna at the same level of the radar, as the radar's energy could damage the antenna. The antenna should be positioned at a distance of at least 1.5 m from the other transmitting antennas (VHF, radar) (Fig. 5).

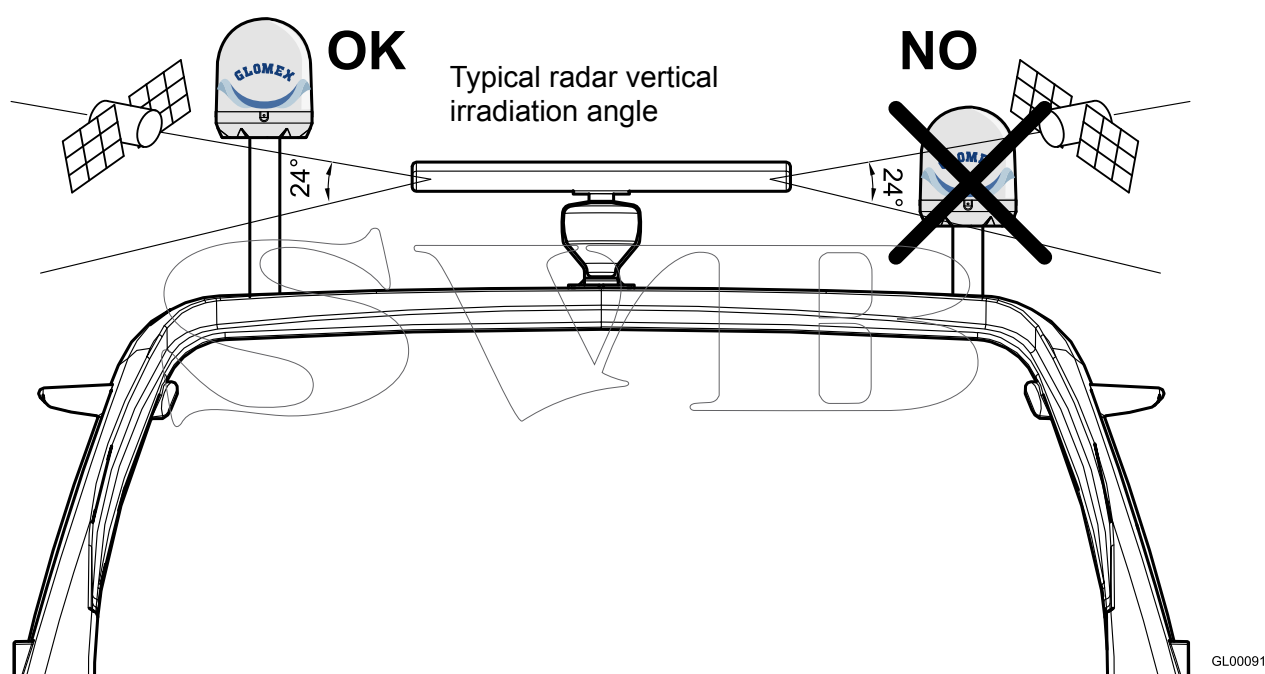


Fig. 5

**⚠ WARNING**

The radio frequency beam transmitted by the radar may damage the inner electronics of the antenna, especially the LNB.

## 6. ASSEMBLY

**⚠ DANGER**

While installing the antenna, wear the appropriate safety equipment for the job to be carried out.

ENGLISH

1. First of all, make sure you have chosen a correct position to install the antenna (see section 5: "Installation").
2. Remove the antenna from the packaging box.
3. Use cutting template 6.1 on page 50 and use a felt-tip pen to mark the holes for the screws coming out of the antenna and for cable passage.

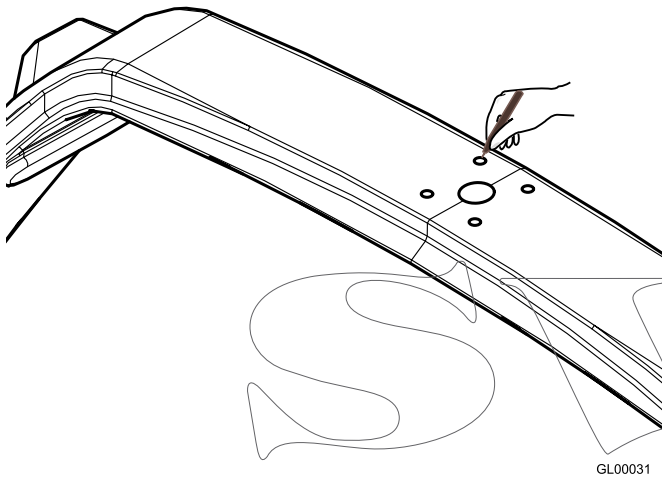


Fig. 6

4. Drill the 4 holes for the passage of the 4 screws coming out of the antenna using an electric drill and a 8.5 mm drill tip on the supporting surface.

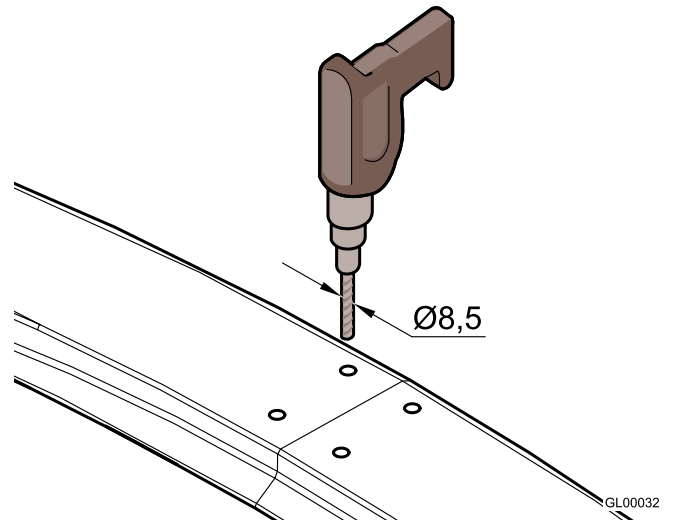


Fig. 7

5. Drill the hole for cable passage by means of an electric drill and a 28 mm hollow mill.

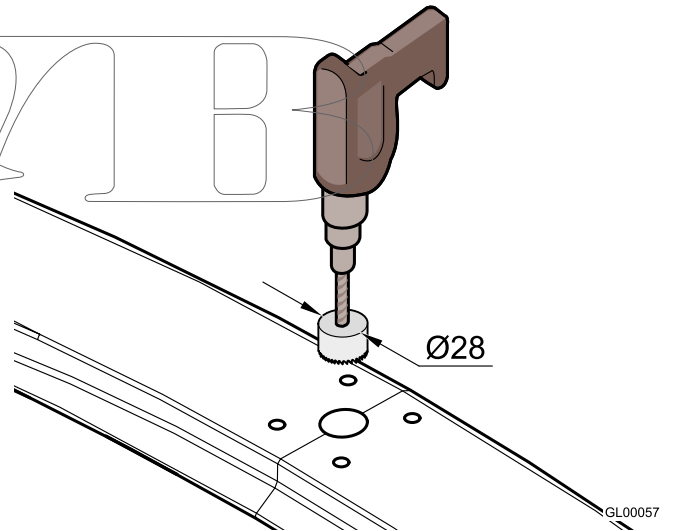


Fig. 8

6. Position the rubber seal so that the holes match.

7. Position the antenna onto the seal, and firstly insert the cable through the relevant hole, then the 4 screws, and pay attention to direct the orientation symbol of the antenna towards the bow.

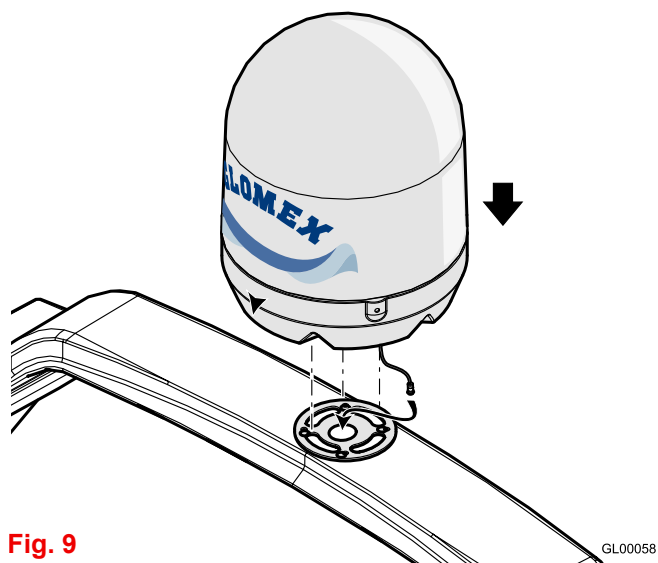


Fig. 9

8. Install the fastening reinforcements onto the threaded bars and screw in the M8 self-locking nuts.

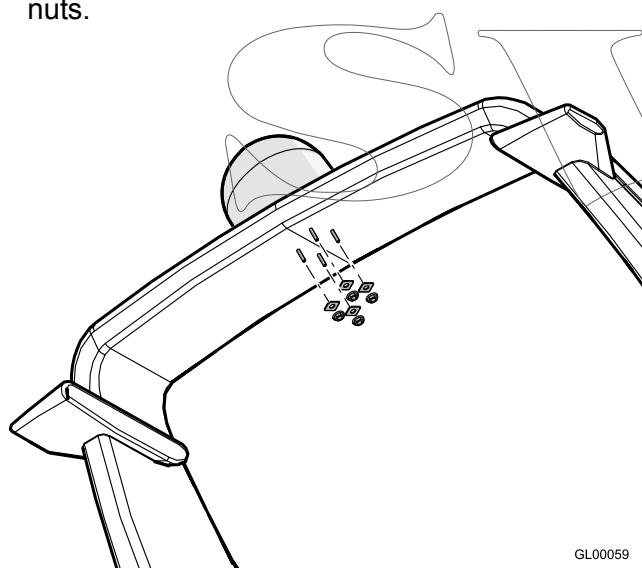


Fig. 10

9. Completely tighten.

### WARNING

GLOMEX declines any liability for an incorrect mounting of the radome on the boat.

10. Connect the 10 m coaxial cable to the cable coming out of the antenna.  
Should it be necessary to shorten the cable, please refer to the instructions given in Fig. 11.

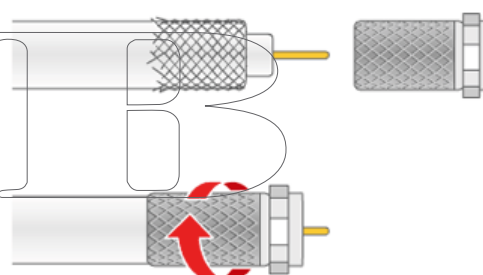
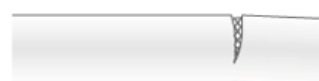


Fig. 11

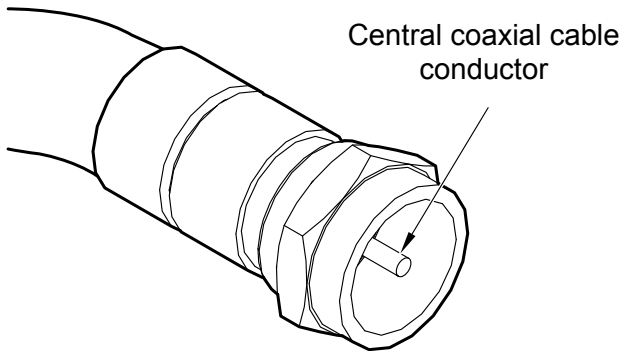
GL00095

### WARNING

Do not pull nor damage the cable coming out of the antenna! It is not provided with an outer sheath as the 10 m coaxial cable!

11. Make sure that the cable core is correctly inserted in the central hole of the female connector on the antenna (otherwise, there could be a short circuit and the fuse installed on the power supply line inside the control unit would trip).  
Manually screw in the ring nut of connector F.  
Once the ring nut has been manually screwed in, tighten by  $\frac{1}{4}$  turn by means of a 11 mm wrench.

**NOTE:** For the connection of the antenna coaxial cable, it is not necessary to remove the upper radome!



GL00011

Fig. 12

**WARNING**

For a correct assembly, respect the installation direction indicated in Fig. 9.

A different installation from the recommended one could cause an incorrect operation of the antenna due to the risk of water penetration into the radome.

Operations to be carried out **inside** the boat.

1. Determine the correct position for the control unit:
  - it must be positioned near the satellite receiver, as the provided coaxial cable is 1.5 m long;
  - it must be reached by the power supply cables coming from the control panel;
  - it must be reached by the coaxial cable coming from the antenna (10 m long);
  - it must be positioned in a dry and ventilated area.
2. Connect the coaxial cable of the antenna (previously installed) to the ANTENNA IN input on the control unit and the 1.5 m coaxial cable to the RECEIVER OUT output on the control unit. Make sure that the cable cores are correctly inserted in the central holes of the relevant female connectors on the control unit (otherwise, there would be a short circuit and the fuse installed on the power supply line inside the control unit would trip). Manually screw in the ring nuts of connectors F. Once the ring nuts have been manually screwed in, tighten by ¼ turn by means of a 11 mm wrench.

**WARNING**

The inversion of the two cables jeopardizes the operation of the equipment. Make sure you have correctly installed the coaxial cables. In case of damage, GLOMEX will not be directly liable for the damage suffered by the receiver.

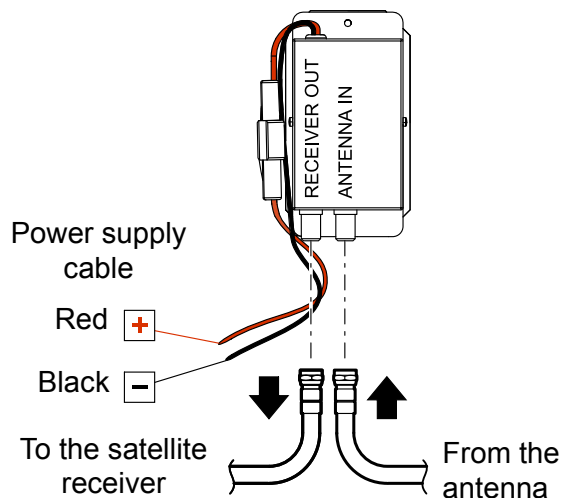


Fig. 13

GL00060

- Connect the power supply cable (12 V) to a free switch for the on-board electronic devices (min. 5A): connect the positive terminal to the red cable and the negative terminal to the black cable. The power supply line must have cables with a minimum cross section of 2.5 mm<sup>2</sup> with a length up to 4 m, of 4 mm<sup>2</sup> for longer cables.

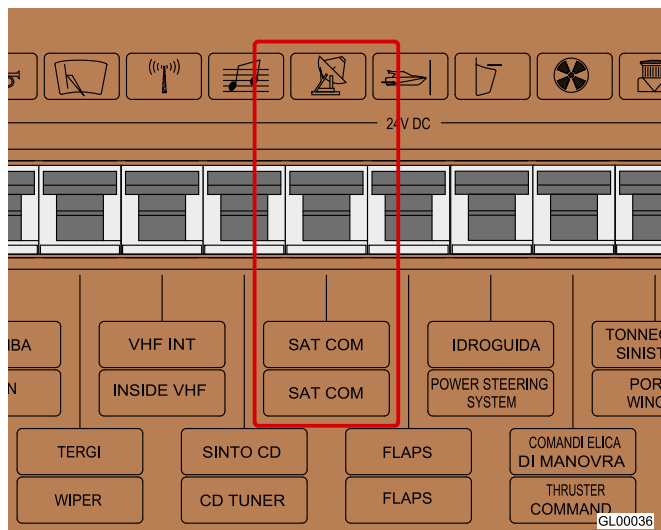
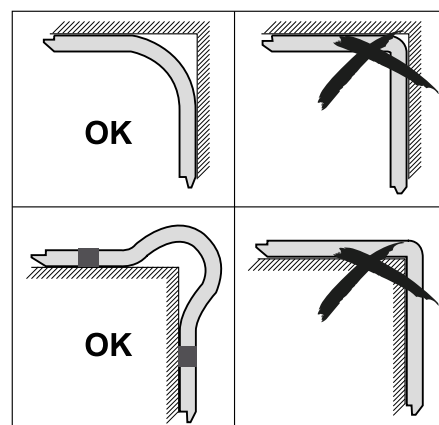


Fig. 14



GL00006

Fig. 15

### WARNING

Do not use power supply from secondary circuits. This could jeopardize the operation of the equipment.

**NOTE:** The polarity inversion on the power supply blows the fuse to prevent any damage to the antenna.

**NOTE:** In case a cable longer than 10 m should be necessary for connecting the control unit to the satellite receiver, we recommend installing line amplifier V9115 between them (applies to models URANIA2 V9331 and PANDORA V8001).

### WARNING

Pay attention not to bend the coaxial cables at a right angle; the bending angle must always be higher than 120°.

**NOTE:** Do not cut the connectors of the coaxial cables (the operation would not be guaranteed any more) and always use the original GLOMEX cables supplied, even with inappropriate dimensions (too long). **Do not use different cables, as it would jeopardize the operation of the equipment.**

- Build in the control unit by using the GLOMEX accessory (code 4.010.0008) by boring a hole with a reciprocating saw and using the drill with 2.5 mm tip (use the cutting template in Fig. 17 for correct dimensions).
- Connect the 1.5 m coaxial cable to the satellite receiver.

**NOTE:** Maximum wall thickness for mounting the control unit: 20 mm.

### WARNING

If the control unit led flashes alternately red and green, there is no communication between the antenna and the control unit.

It is therefore necessary to check that the connection cable between antenna and control unit is correctly fastened and is not interrupted or short-circuited.

### 6.1 LOWER RADOME CUTTING TEMPLATE

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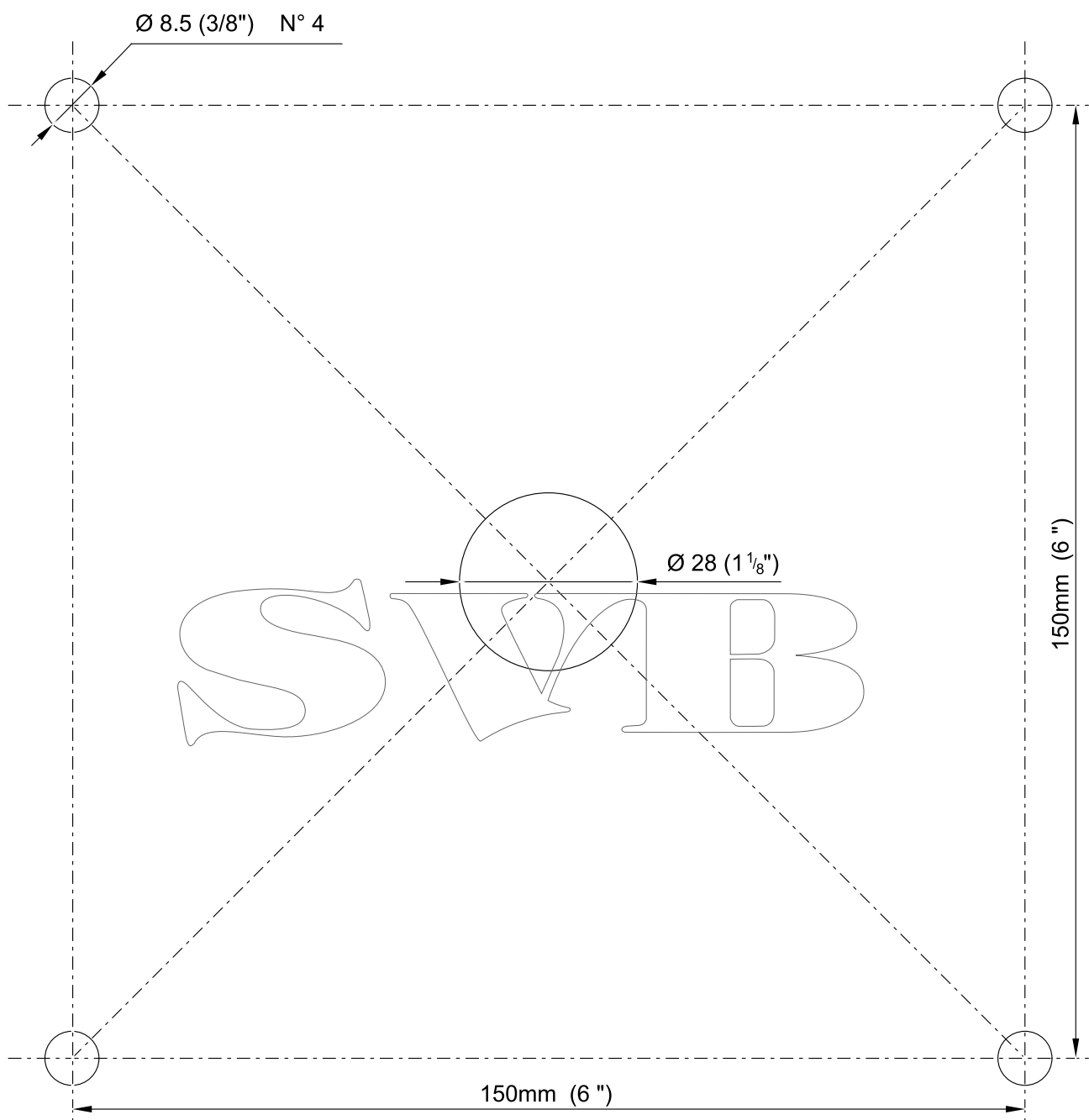
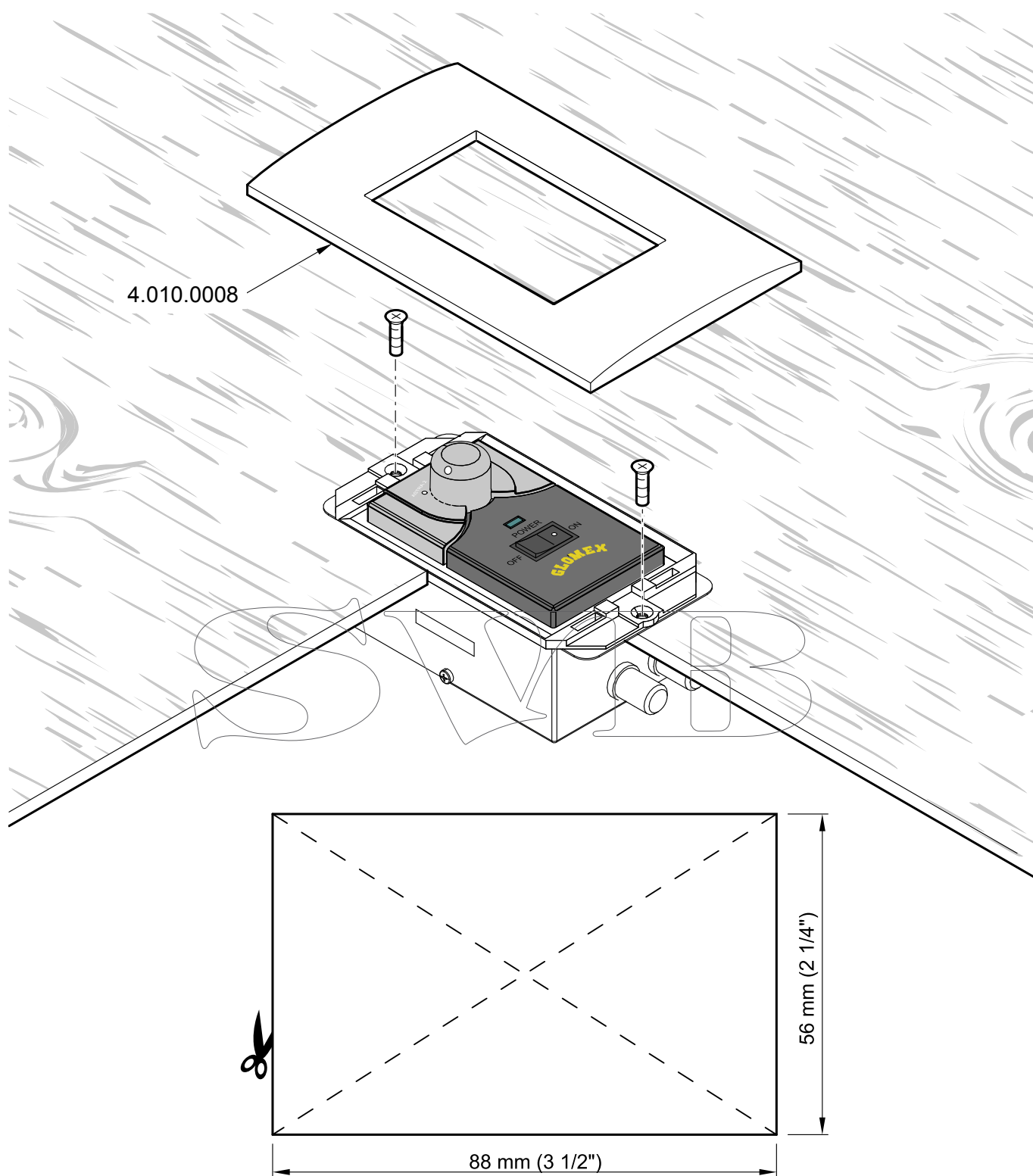


Fig. 16



## 6.2 CUTTING TEMPLATE FOR BUILT-IN INSTALLATION OF THE CONTROL UNIT



ENGLISH

Fig. 17

GL00062

### 6.3 SKEW CALIBRATION (MANUAL)

Satellites can transmit in linear (Europe) or circular (USA) polarisation. GLOMEX antennas are designed to operate with a linear or circular polarisation according to the installed LNB, depending on the satellite whose transmission you want to receive and on where you are positioned.

Circular polarisation does not require any calibration for the optimization of the received signal.

On the contrary, LNB operating with linear polarisation need calibrating upon installation, in order to optimize the alignment of the LNB with the satellite whose transmission you want to receive.

When you are at the same longitude of the satellite, its horizontal and vertical signals are aligned with the horizon. When the satellite is east or west of your position, the signal of the satellite will appear as clockwise or counterclockwise shifted. Both the horizontal and the vertical signal will be shifted by the same angle, and therefore they will always be perpendicular to each other.

The degree of rotation will depend on the distance to the east or to the west between the position of the antenna and the position of the satellite, and on your distance from the equator.

Once you move to an area with a longitude more than +/- 10° from the previous position, the LNB must be manually adjusted in order to obtain the best possible signal.

Antennas are delivered with the LNB optimized for an area with longitude 12° East while receiving satellite 13° East.

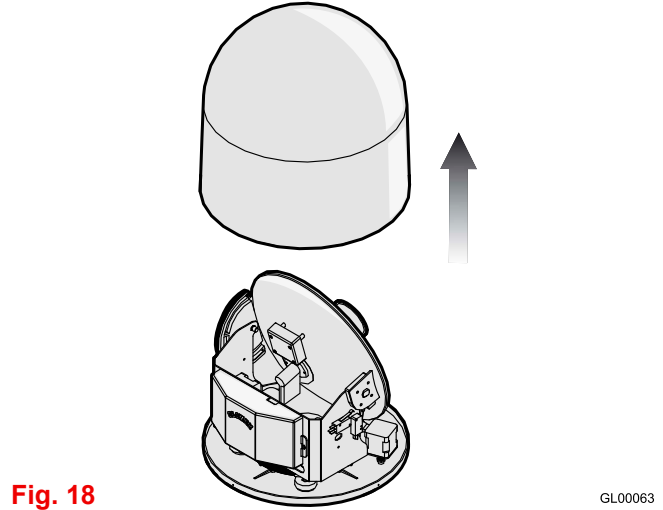


Fig. 18

GL00063

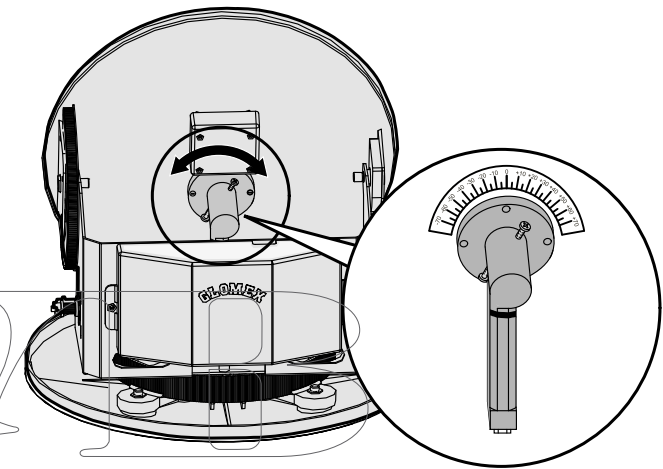


Fig. 19

GL00124

For the adjustment of the LNB, proceed as follows:

- loosen the 3 screws on the radome and remove it from the base;
- loosen the 2 screws fastening the LNB to the dish (see Fig. 19) and manually move the dish, using the parameter of signal quality of the digital receiver in use as a reference for correct calibration (please refer to the receiver's manual). Calibration does not need to be changed if the boat remains in the same area and receives transmission from the same satellite.

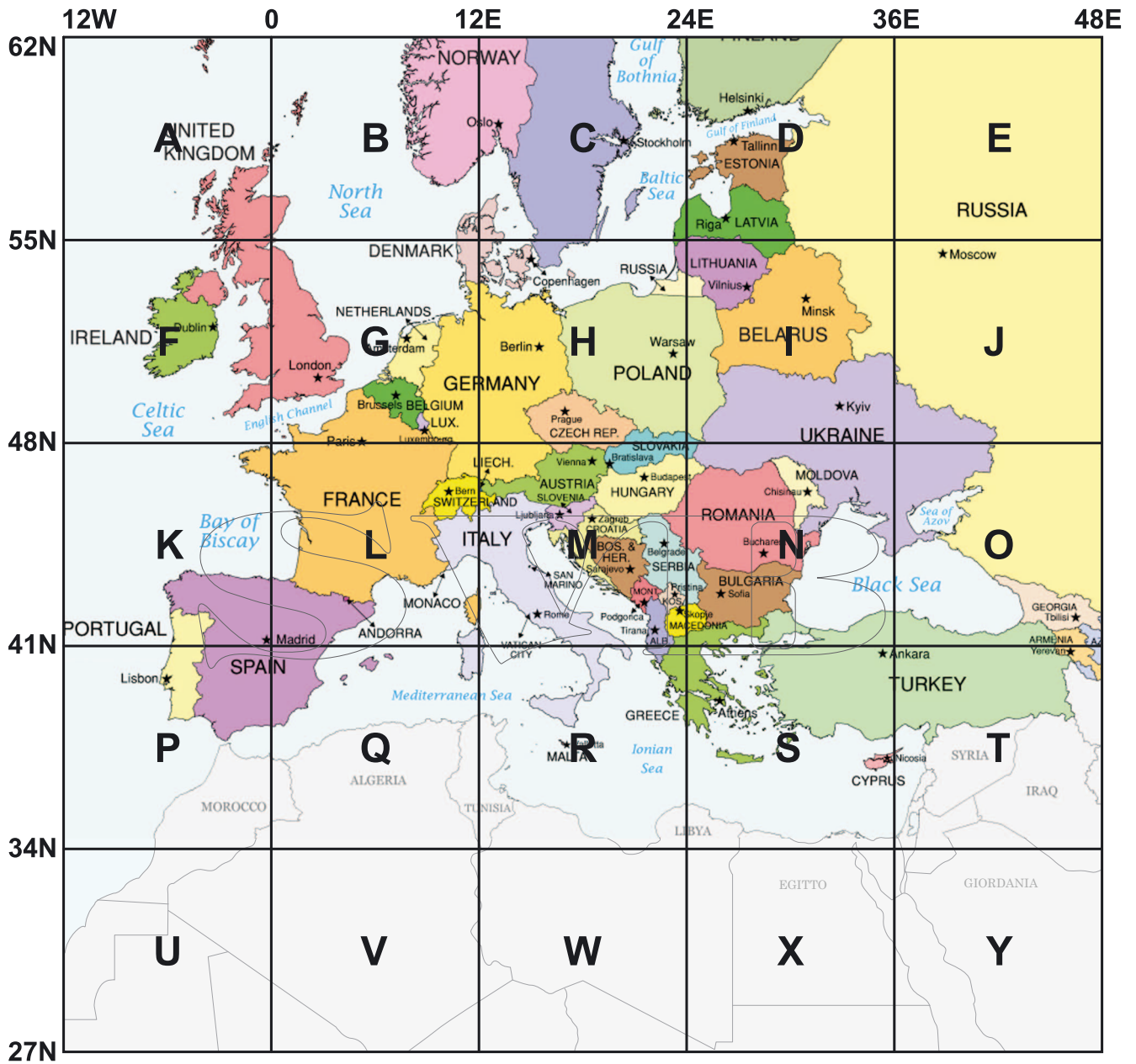
**⚠ WARNING**

While adjusting the SKEW, please make sure not to disconnect the two sensor cables fastened to the LNB.

Once the desired adjustment has been carried out, tighten the screws, position the radome onto its base again and tighten the 3 fastening screws again.

### 6.4 SKEW ADJUSTMENT GRID FOR EUROPE

To determine the values for adjusting the LNB, it is possible to use the grid below and the relevant table.



ENGLISH

**Fig. 20**

GL00096

We recommend obtaining the values for the adjustment by using the (free licence) software SMW Link (distributed by SWEDISH MICROWAVE AB, <http://www.smw.se/smwlink.htm>).

ENGLISH

Grid position	TURKSAT 42°E	ASTRA2 28.2°E	ASTRA3 23.5°E	ASTRA1 19.2°E	HOTBIRD 13.0°E	SIRIUS 4.8°E	THOR 1°W	HISPASAT 30°W
A (6°W 58°N)	-25°	-19°	-18°	-14°	-11°	-6°	-3°	14°
B (6°E 58°N)	-20°	-13°	-12°	-8°	-4°	0°	4°	20°
C (18°E 58°N)	-14°	-6°	-4°	0°	3°	8°	11°	24
D (30°E 58°N)	-7°	1°	3°	6°	10°	14°	17°	28°
E (42°E 58°N)	0°	7°	10°	13°	16°	20°	23°	30°
F (6°W 52°N)	-30°	-24°	-21°	-18°	-14°	-8°	-3°	17°
G (6°E 52°N)	-24°	-16°	-13°	-10°	-5°	0°	5°	24°
H (18°E 52°N)	-17°	-8°	-5°	0°	3°	9°	14°	34°
I (30°E 52°N)	-9°	1°	4°	8°	12°	18°	21°	36°
J (42°E 52°N)	0°	11°	12°	17°	20°	25°	28°	22°
K (6°W 45°N)	-36°	-29°	-27°	-23°	-18°	-10°	-5°	30°
L (6°E 45°N)	-30°	-20°	-20°	-12°	-7°	0°	6°	31°
M (18°E 45°N)	-22°	-9°	-8°	-1°	4°	12°	18°	36°
N (30°E 45°N)	-11°	2°	5°	10°	16°	22°	27°	40°
O (42°E 45°N)	0°	13°	17°	21°	25°	31°	34°	43°
P (6°W 38°N)	-43°	-35°	-36°	-28°	-22°	-13°	-6°	27°
Q (6°E 38°N)	-37°	-25°	-23°	-16°	-8°	1°	8°	36°
R (18°E 38°N)	-27°	-12°	-10°	-1°	6°	16°	22°	43°
S (30°E 38°N)	-15°	2°	8°	13°	20°	28°	33°	47°
T (42°E 38°N)	0°	17°	23°	26°	31°	37°	41°	50°
U (6°W 30°N)	-	-44°	-43°	-36°	-28°	-18°	-8°	35°
V (6°E 30°N)	-	-33°	-34°	-21°	-11°	1°	11°	45°
W (18°E 30°N)	-	-16°	-11°	-1°	8°	21°	29°	52°
X (30°E 30°N)	-	3°	10°	18°	25°	36°	41°	56°
Y (42°E 30°N)	-	22°	28°	34°	38°	46°	49°	58°

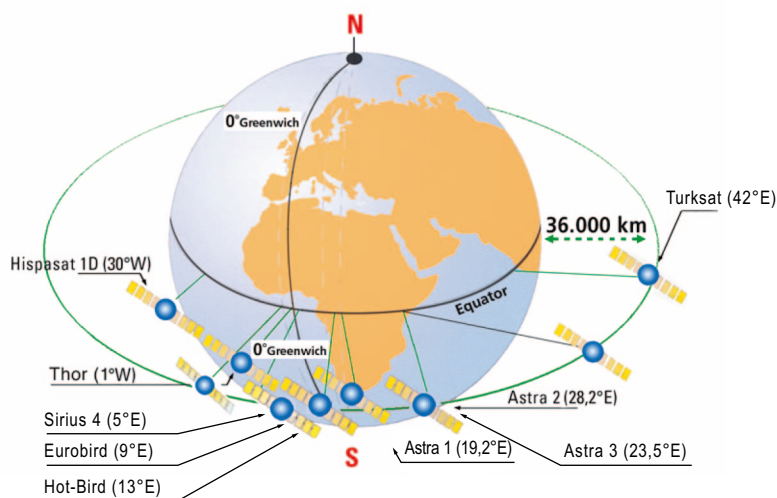


Fig. 21

GL00069

## 7. USE

### Flow chart

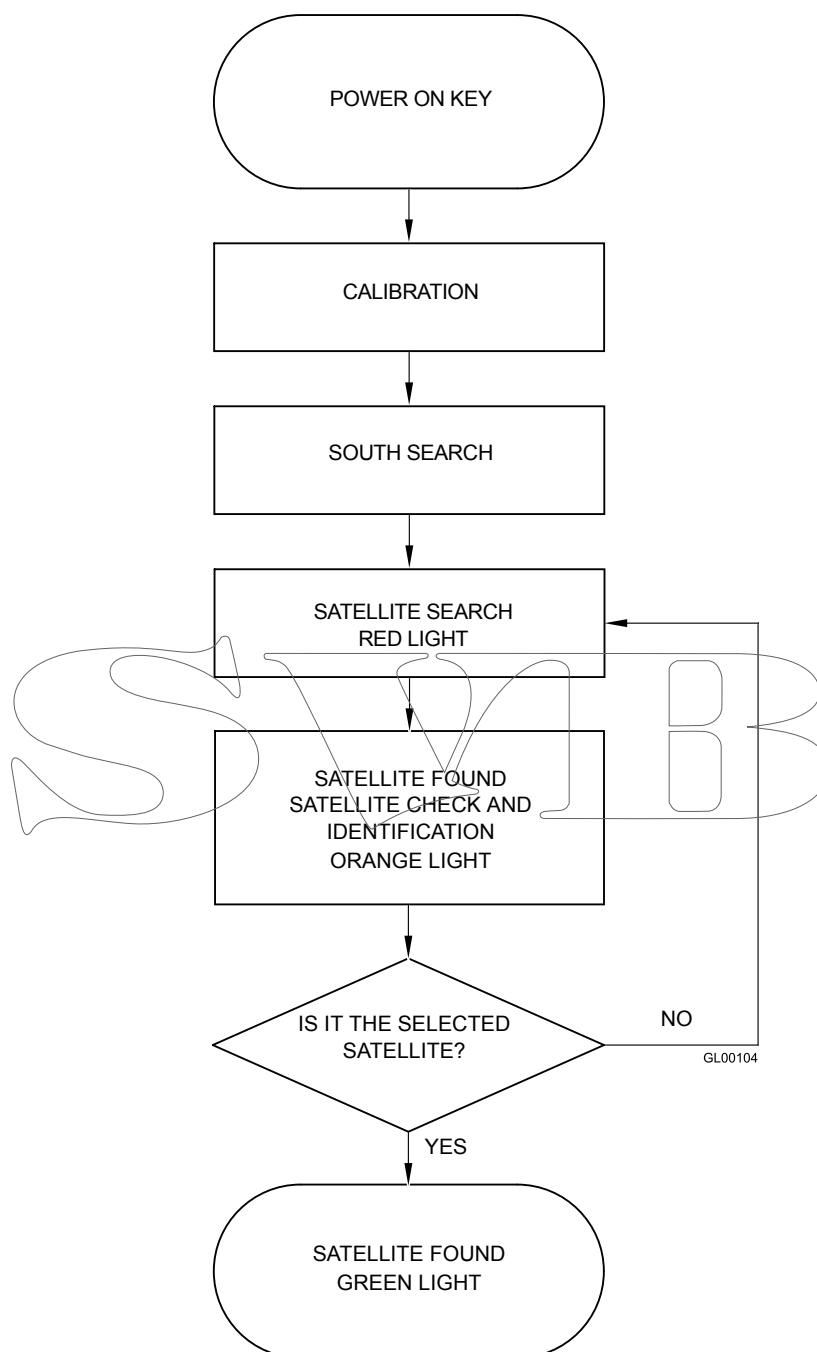
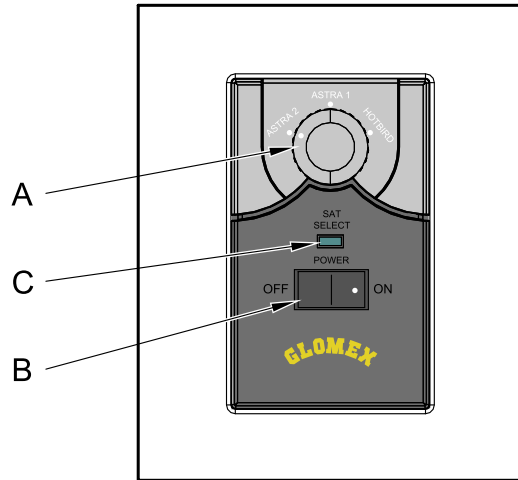


Fig. 22

1. Make sure that the antenna has a clear view of the sky in order to receive satellite signals.
2. Turn on the receiver and the TV set. For details about the use of the receiver and the TV set, please refer to the relevant user manuals provided by the manufacturers.
3. On the control unit, by means of the relevant selector (A), select the desired satellite (ASTRA2, ASTRA1, HOTBIRD).
4. Turn on the control unit (set (B) key to ON).
5. After a few seconds, the led (C) turns red, and this means that the antenna is searching for the signal.
6. If the antenna has found a satellite signal, the led turns orange and starts checking that the found satellite is the selected one. Verification can take up to 30 seconds.
7. If, after a few seconds, the led turns green, it means that the found satellite was the correct one. Otherwise, the led turns red again, and the procedure is restarted.
8. With green led, after a few seconds, the image will appear on the TV set. Follow the instructions appearing on the screen to set the parameters for a correct operation of the receiver.
9. **Automatic stand-by function:**  
 once the satellite has been verified (green led on the control unit), after about 2 minutes that the boat did not move, the antenna stops in the position where signal reception from the satellite is maximum.  
 A level decrease of the received signal or a total shift of the boat of 6° in 2 minutes “wake the antenna up” in order that it recovers the maximum receivable signal level.



GL00044

Fig. 23

- A. Satellite selector
- B. Power on key
- C. Led

**WARNING**

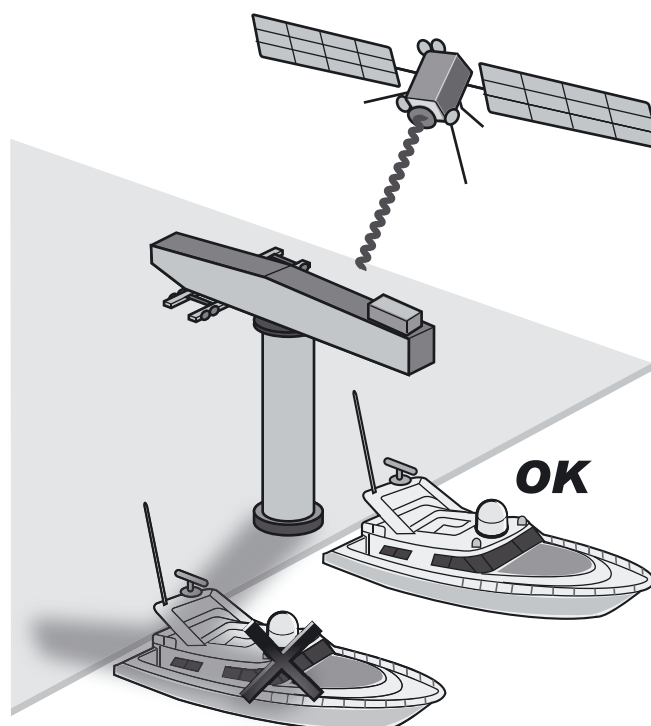
If the led flashes alternately red and green, this means that the antenna is not connected to the control unit or that a failure has occurred. See section “Troubleshooting” or contact the Service Centre.



## 8. TIPS FOR CORRECT USAGE

GLOMEX recommends observing the following indications for a correct use of the equipment.

- The receiver must be activated before receiving the satellite programmes.
- Keep the radome always mounted on the antenna. Its task is to protect all inner (fixed and moving) parts from wind, rain and dust.
- Do not lean against and/or sit on the antenna!
- Pay attention not to spill liquids of any kind into the antenna.
- The radome should be cleaned periodically. Dust or dirt accumulated on the radome could affect the satellite signal receipt. Clean the radome with a cloth dampened with water. **DO NOT USE BRUSHES, ABRASIVE PRODUCTS, DETERGENTS OR ALCOHOL-BASED LIQUIDS.**
- Do not paint the surface of the radome! This would negatively affect signal receipt.
- The antenna requires a clear view of the sky to receive satellite signals. Possible very common signal obstructions include masts of other boats, bridges, on-board equipment, etc. GLOMEX antennas also do not operate inside storage areas.



GL00045

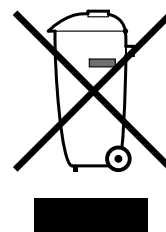
**Fig. 24**

- Heavy rain or snow could temporarily interrupt signal receipt from the satellite.
- The boat must be within the coverage area of the selected satellite to receive the desired signal. Please refer to the satellite coverage footprints on the following page.

### **WARNING**

Bad weather conditions affect the quality of the signal and reduce image quality!

- At the end of its life, do not scatter the antenna or its components into the environment, but take advantage of specialized waste disposal agencies.



**Fig. 25**

GL00024

## 8.1 FOOTPRINTS: SATELLITE TRANSMISSION AREAS

Satellite television is one of the few means which allow receiving information in any part of the world within the coverage area of the satellite you wish to receive.

The signal transmitted by the satellite generally has a wide coverage area, as shown in the purely indicative footprints below, and thus guarantees vision of the same TV programmes in various areas.

However, it is important to remember that ground obstacles are the main causes of satellite antenna malfunction.

Ground obstacles include all bodies which could be located between satellite and antenna, such as masts of other boats, bridges, on-board equipment, etc.

The signal transmitted by the satellite is also affected by weather conditions (storm clouds or ice clouds).

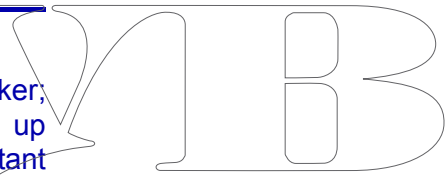
The footprints show the satellite coverage areas on the Earth by using the URANIA 2 V9331, PANDORA V8001 and RHEA V8100 satellite antennas.

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 **WARNING**

In case of bad weather, signals will be weaker, therefore, the image quality could be reduced, up to completely fading away. It is also very important to make sure, upon purchase, that the dimensions of the satellite antenna are the most appropriate ones to receive the signal in the areas where you spend your holiday. Footprints are indicative and referred to the satellite with the strongest E.I.R.P. (Equivalent Isotropic Radiated Power).

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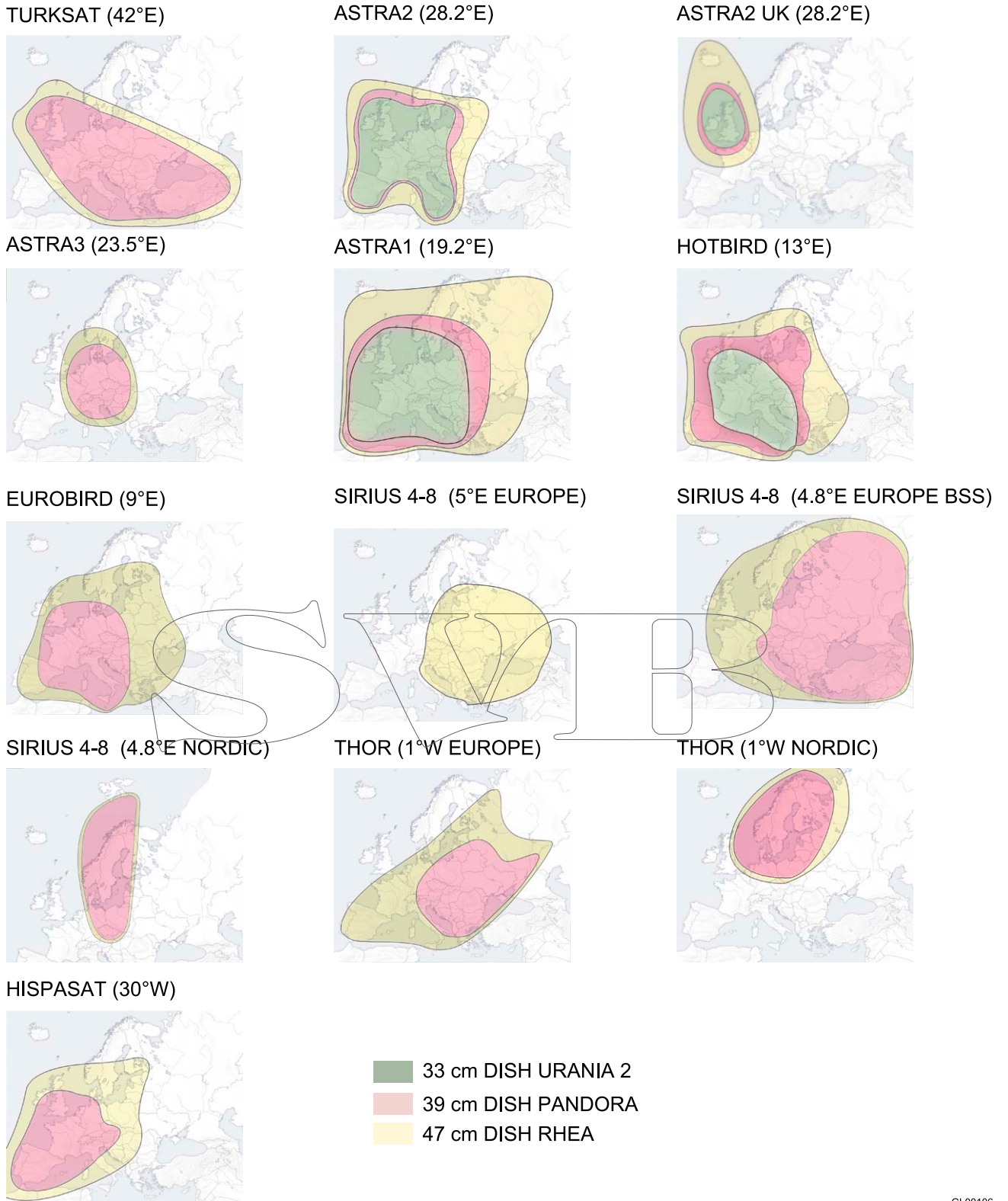


Fig. 26

GL00106

## 9. MAINTENANCE

### 9.1 PREVENTIVE MAINTENANCE

GLOMEX antennas PANDORA V8000 and URANIA 2 V9330 require minimum preventive maintenance.

Observing the following instructions is sufficient to maintain a high equipment performance.

#### Monthly checks

- Wash the radome surface with a cloth damped with fresh water; do not direct pressurized water jets onto the radome.

#### WARNING

Do not use brushes, abrasive products, detergents or alcohol-based liquids.

#### Yearly checks

- Check the outer conditions of the radome. Clean from dust and dirt if necessary.

#### Checks before any long cruise

- Check that the antenna is correctly fastened.

#### DANGER

Before carrying out any maintenance or cleaning operation, or after each use, ALWAYS turn off the antenna by means of the switch located on the control unit or from the on-board control panel.

Should you have problems with the operation or in case you need technical support, first of all contact the authorized Retailer. Keep at hand the serial number of your antenna (on page 2 in this manual) and a list with the failure symptoms. Should no Retailer be available, contact the GLOMEX Service Centre (see section "Technical Support").

#### WARNING

You will be asked the serial number of your antenna during any service or troubleshooting phone call. The serial number is found on page 2 of the user manual of your antenna (see page 39 for serial number indications).

#### WARNING

Conserve the installation and user manual with care, as it contains the serial number of your antenna!

### 9.2 SPARE PARTS

The following table lists the codes of the components which can be supplied as spare parts directly by the Retailer.

Component	GLOMEX code
Lower radome V9331	V9331-LR
Upper radome V9331	V9331-UR
Lower radome V8001	V8001-LR
Upper radome V8001	V8001-UR
Lower radome V8100	V8100-LR
Upper radome V8100	V8100-UR
Fuse for control unit T3A15 5x20	4.120.0076

### 9.3 SOFTWARE UPDATE BY SD CARD

The SD card must be inserted into the relevant slot on the control unit side.

The SD card used for updating must be formatted in FAT32, cluster size 4096 bytes (4k) and with empty volume label.

It is therefore necessary to copy the provided file V8000.DAT onto the SD card, proceeding as follows:

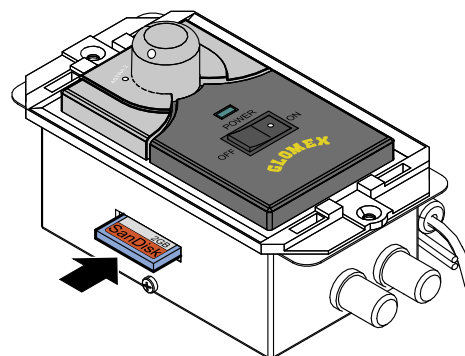
1. Turn off the decoder, the TV set and make sure that the switch on the control unit is set to OFF.
2. Remove the wall-mounting plate (see **Fig. 17**), loosen the screws and remove the built-in control unit.
3. Insert the SD card into the relevant slot on the control unit side, as indicated in **Fig. 27**, respecting the direction (side with manufacturer label up) and making sure you have completely inserted it.
4. Turn on the control unit (set B key, **Fig. 23**, to ON).
5. If the control unit detects the presence of a SD card with original GLOMEX software, the led turns orange and automatically starts the software updating procedure.
6. If the led stays red and the antenna moves, this means that no original GLOMEX software has been detected, or that the SD card has not been inserted completely. Turn off the control unit and repeat the procedure from step 4.

**NOTE:** if the control unit is not immediately turned off, in a few seconds the led will turn orange and then green, according to the standard satellite searching procedure; turn off anyway and repeat the procedure from step 4.

7. If the update is correctly carried out, the led turns green. Otherwise, the led turns red and it is necessary to turn off the control unit and to repeat the procedure from step 4.
8. Turn off the control unit, remove the SD card, insert the control unit into the wall, reinstall the fastening screws and the installation plate.

### WARNING

In case of repeated failures in the software update procedure, please contact the GLOMEX Service Centre.



**Fig. 27**

GL00067

**NOTE:** it is possible to download the necessary software updating file from the Glomex website ([www.glomex.it](http://www.glomex.it)) in section "Technical Support - Download Area".

Flow chart

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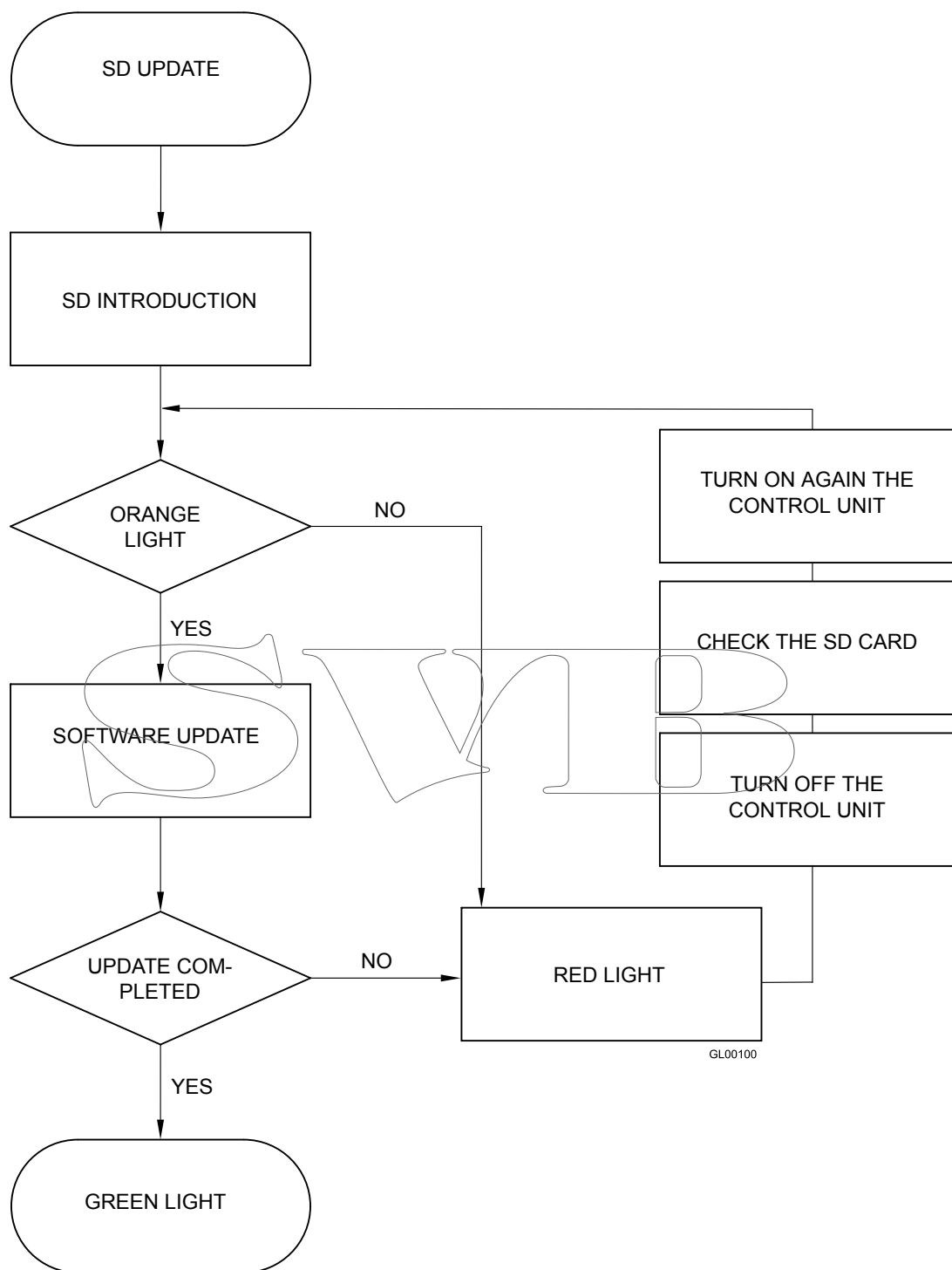


Fig. 28

## 9.4 REPLACING THE POWER SUPPLY PROTECTION FUSE

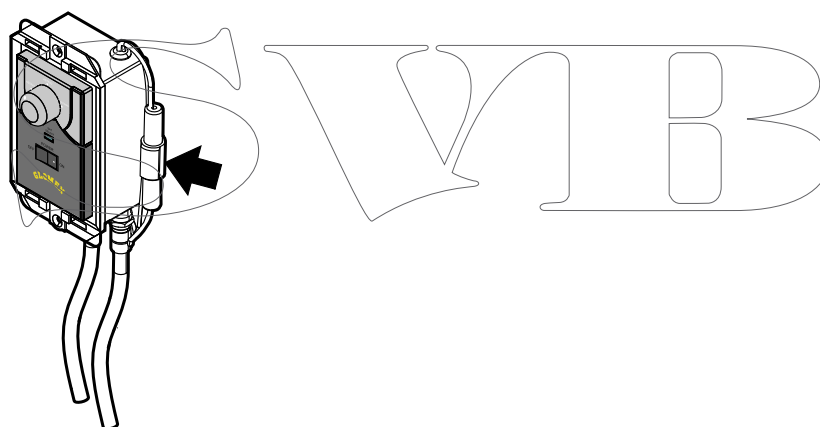
In case the fuse on the power supply line has blown, proceed as follows to replace it:

- Turn off the decoder, the TV set and make sure that the switch on the control unit is set to OFF.
- Remove the wall-mounting plate (see **Fig. 17**), loosen the screws and remove the built-in control unit.
- Disconnect the power supply cable.
- Remove the blown fuse from its seat indicated in **Fig. 29** and replace it with a new one (**type T 3A15 5x20**, i.e. delayed-action tube fuse, with 5 mm diameter and 20 mm length, 3 A rated current and 15 V rated voltage).
- Connect the power supply cable again.
- Insert the control unit into the wall, reinstall the fastening screws and the installation plate.



### DANGER

Do not supply the antenna by connecting the two wires of the positive pole without using the fuse. This could cause a fire.



GL00068

**Fig. 29**



### WARNING

In case the fuse blows again, a short circuit on the coaxial cable or on the power supply cable could be the cause. Check that the cables are not short-circuited.

## 10. TROUBLESHOOTING

When a malfunction of your satellite system occurs, it is very important to make a rapid check to understand the nature of the malfunction and, if possible, to find a remedy.

To analyze a malfunction, it is appropriate to carry out the following verifications:

- the malfunction has been generated through human mistake;
- the malfunction is due to a weather problem;
- the malfunction is due to a failure of the equipment itself or it is caused by an anomaly of another external appliance, but in some ways connected to the equipment;
- in which phase the malfunction occurs: upon start-up, during normal operation, upon shut-down;
- the malfunction is repeated; if so, according to what criteria;
- what the malfunction determine from a functional point of view;

- whether the malfunction produces signals (light signals) and/or anomalous noise (such as hissing, buzzing, etc.) and/or anomalous odours (smell of burning) or not;
- the malfunction interferes with the operation of other appliances;
- the malfunction is an apparent failure (i.e. it disappears, for example, by turning off and then on again the equipment).

The better you are able to answer the above-mentioned questions, the deeper the malfunction analysis will be.

The following table analyzes the most probable causes which can lead to malfunctions of your GLOMEX URANIA 2 V9331, PANDORA V8001 and RHEA V8100 antennas. For any analyzed possible cause, a corrective measure is proposed, to efficiently solve, as much as possible, the trouble.

Anomaly	Cause	Remedy
1. The antenna does not operate (the led on the control unit does not turn on)	<ul style="list-style-type: none"> <li>- the fuse is blown</li> <li>- wrong power supply cable</li> <li>- short-circuited coaxial cable</li> <li>- proper failure</li> </ul>	<ul style="list-style-type: none"> <li>- replace the blown fuse with a new one (see section "Maintenance")</li> <li>- check the polarity on the power supply line</li> <li>- check the correct mounting of the coaxial cables</li> <li>- contact the Service Centre</li> </ul>
2. The antenna does not operate (the led on the control unit flashes alternately red and green)	<ul style="list-style-type: none"> <li>- the coaxial cable has loosened or has disconnected from the antenna</li> <li>- inner failure</li> </ul>	<ul style="list-style-type: none"> <li>- check the connection of the coaxial cables</li> <li>- contact the Service Centre</li> </ul>
3. No status message on the decoder	<ul style="list-style-type: none"> <li>- the satellite receiver is not installed correctly</li> <li>- alternating current fluctuations</li> </ul>	<ul style="list-style-type: none"> <li>- check the receiver connection</li> <li>- refer to the user manual of the receiver for support</li> </ul>
4. No image on the TV (the led on the control unit is green)	<ul style="list-style-type: none"> <li>- the receiver is off</li> <li>- the TV set is off or has not been tuned to AV</li> <li>- wrong cable connection on the receiver</li> <li>- the channel list is not up-to-date</li> </ul>	<ul style="list-style-type: none"> <li>- turn off the control unit, turn on the receiver and then turn on the control unit again</li> <li>- turn on the TV set and tune to AV channel</li> <li>- check that the SCART socket between the TV set and the receiver is installed correctly</li> <li>- carry out the automatic channel search in the receiver menu</li> </ul>



5. Intermittent images for short periods	<ul style="list-style-type: none"> <li>- the satellite signals are obstructed by masts of other boats, bridges, on-board equipment, etc.</li> <li>- the boat is at the boundary of the coverage area</li> <li>- bad weather conditions</li> <li>- wrong SKEW adjustment</li> </ul>	<ul style="list-style-type: none"> <li>- move the boat to allow an unobstructed view for the antenna</li> <li>- go back within the coverage area; refer to the footprints of the coverage areas on page <b>58</b> in this manual</li> <li>- adjust the SKEW by following the instructions on page <b>52</b></li> </ul>
6. The equipment does not find the satellite (the led on the control unit is red)	<ul style="list-style-type: none"> <li>- the satellite signals are obstructed by masts of other boats, bridges, on-board equipment, etc.</li> <li>- the boat is outside the signal coverage area</li> <li>- the boat is heaving within the first 60 seconds after turning on the equipment</li> <li>- bad weather conditions</li> <li>- inner failure</li> <li>- wrong SKEW adjustment</li> </ul>	<ul style="list-style-type: none"> <li>- move the boat to allow an unobstructed view for the antenna or correctly position the antenna on the boat</li> <li>- go back within the coverage area; refer to the footprints of the coverage areas on page <b>58</b> in this manual</li> <li>- turn off the equipment for 10 seconds, turn it on again and make sure that the boat is still or moves in a straight line during the first 60 seconds after being turned on</li> <li>- contact the Service Centre</li> <li>- adjust the SKEW by following the instructions on page <b>52</b></li> </ul>
7. The equipment does not find the satellite (the led on the control unit flashes alternately red and orange)	<ul style="list-style-type: none"> <li>- the satellite signals are obstructed by masts of other boats, bridges, on-board equipment, etc.</li> <li>- the equipment software is not up to date</li> <li>- wrong SKEW adjustment</li> </ul>	<ul style="list-style-type: none"> <li>- move the boat to allow an unobstructed view for the antenna</li> <li>- please contact the Service Centre to ask for the software update by SD card</li> <li>- adjust the SKEW by following the instructions on page <b>52</b></li> </ul>
8. Disturbed images	<ul style="list-style-type: none"> <li>- failure of the receiver</li> </ul>	<ul style="list-style-type: none"> <li>- refer to the user manual of the receiver for support, spare parts and warranty conditions.</li> </ul>
9. Confused, incomplete and obstructed images	<ul style="list-style-type: none"> <li>- condensate or rain on the radome, which can disturb the signal</li> <li>- bad weather conditions</li> <li>- wrong SKEW adjustment</li> </ul>	<ul style="list-style-type: none"> <li>- remove the condensate deposits from the radome with a fresh water jet (not under pressure)</li> <li>- periodically apply a liquid detergent suitable for dishes (no alcohol-based detergent) to the radome surface and let dry up</li> <li>- adjust the SKEW by following the instructions on page <b>52</b></li> </ul>

10. The decoder blocks	- alternating current fluctuations	- refer to the user manual of the receiver for support
11. The equipment operates with still boat but not with moving boat	- the satellite signal is obstructed  - failure in the gyroscope system	- move away from possible obstacles obstructing the satellite signal  - contact the Service Centre

For further information, please address to the GLOMEX Service Centre (see section “Technical Support”).

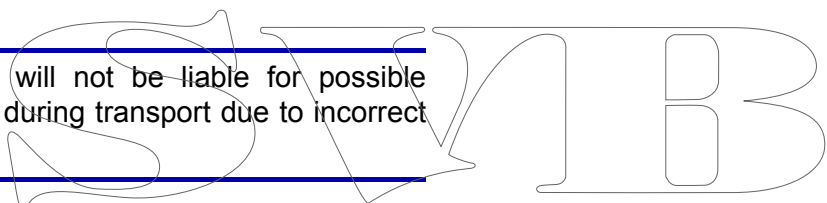
### 11. RESHIPPING

Should you need to return the antenna to GLOMEX, place it in a box, possibly the original one, making sure it is well packaged and that the upper and lower side are well recognizable.

In order to prevent any damage to the antenna during transport, it is necessary to fasten it to the lower radome by means of four M8 nuts screwed on the 4 screws coming out of the lower radome.

Together with the antenna, please also send the control unit, so that a verification of the whole system is possible.

**NOTE:** GLOMEX will not be liable for possible damage occurred during transport due to incorrect packaging.



 **WARNING**

Do not ship the antenna to GLOMEX for repairs without having received a corresponding authorization to return the material (RMA), as reported in the general warranty/support conditions.



## 12. TECHNICAL SPECIFICATIONS

	URANIA 2 V9331	PANDORA V8001	RHEA V8100
Antenna dish diameter	33 cm	39 cm	47 cm
Radome dimension	36.5 x 38.5 cm	42 x 45 cm	50 x 40 cm
Antenna weight	4.5 kg	6.0 kg	8.0 kg
Tracking rate	50° sec	50° sec	50° sec
Antenna gain	31.5 db - 12 GHz	33 db - 12 GHz	35 db - 12 GHz
Dish type	PRIME FOCUS + HPD	PRIME FOCUS + HPD	PRIME FOCUS + HPD
Polarization	Linear (H + V)	Linear (H + V)	Linear (H + V)
LNB	10.7 GHz / 12.75 GHz	10.7 GHz / 12.75 GHz	10.7 GHz / 12.75 GHz
Radome type	UV resistant	UV resistant	UV resistant
Power requirements	12 V DC 1,0 A/h	12 V DC 1.5 A/h	12 V DC 1.5 A/h
Operating temperature range	-20 °C +55 °C	-20 °C +55 °C	-20 °C +55 °C
Azimuth turn range	Unlimited	Unlimited	Unlimited
Full elevation range	-9° - 81°	-9° - 81°	-9° - 81°
Type of stabilization	Gyro on 2 axis +3° axis by interpolation	Gyro on 2 axis +3° axis by interpolation	Gyro on 2 axis +3° axis by interpolation
Satellite identification	NIT (Network identification table)	NIT (Network identification table)	NIT (Network identification table)
Min. EIRP	52 dBW	50 dBW	49 dBW
Future upgrade ready	Yes	Yes	Yes
Decoder output	1 output	1 output	1 output
Autoskew (option)	NO	NO	NO
Control unit	3 satellites loaded: ASTRA2 28°E ASTRA1 19°E HOTBIRD 13°E	3 satellites loaded: ASTRA2 28°E ASTRA1 19°E HOTBIRD 13°E	3 satellites loaded: ASTRA2 28°E ASTRA1 19°E HOTBIRD 13°E

## 13. TECHNICAL SUPPORT

In case technical support is needed, please contact the GLOMEX SERVICE CENTRE:

### Glomex Divisione Marine

Via Faentina 165/G  
48124 Ravenna (Italy)  
Tel. +39 0544 1935911  
Fax +39 0544 500420  
Email: [service@glomex.it](mailto:service@glomex.it)

**NOTES:**

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