



MOTOSAT 65 MOTOSAT 85

INSTALLATION GUIDE AND USER MANUAL

TELECO

UK

TELECO WARRANTY

Teleco guarantees its satellite dishes and terrestrial antennas against any material and/or construction fault and defect. The warranty offered by TELECO is limited to the free-of-charge replacement or repairing of any parts that are deemed faulty by TELECO. The warranty is applicable for a period of 3 YEARS starting from the product purchase date; however, it will only be considered valid if the Customer is able to produce a written document (invoice or tax receipt) showing the purchase date.

The following is excluded from the TELECO warranty:

- a. Damages caused by incorrect installation and/or use and/or maintenance
- b. Damages resulting from product alterations not authorised by Teleco
- c. Damages resulting from the use of spare parts different from original Teleco parts
- d. Damages resulting from repairs carried out by personnel not authorised by Teleco
- e. Normal part wear;
- f. Expenses incurred for spare parts transport between the Customer's and the service centre
- g. Damages that may occur during transport:
the Customer shall always be responsible for transport risks.

Information

Congratulations on your purchase! MotoSat is among the most technologically advanced products in the field of satellite TV reception. This handbook has been prepared to provide information on how to install, use, maintain and technical specifications your MotoSat.

For additional information, please contact your local dealer or directly the manufacturers:

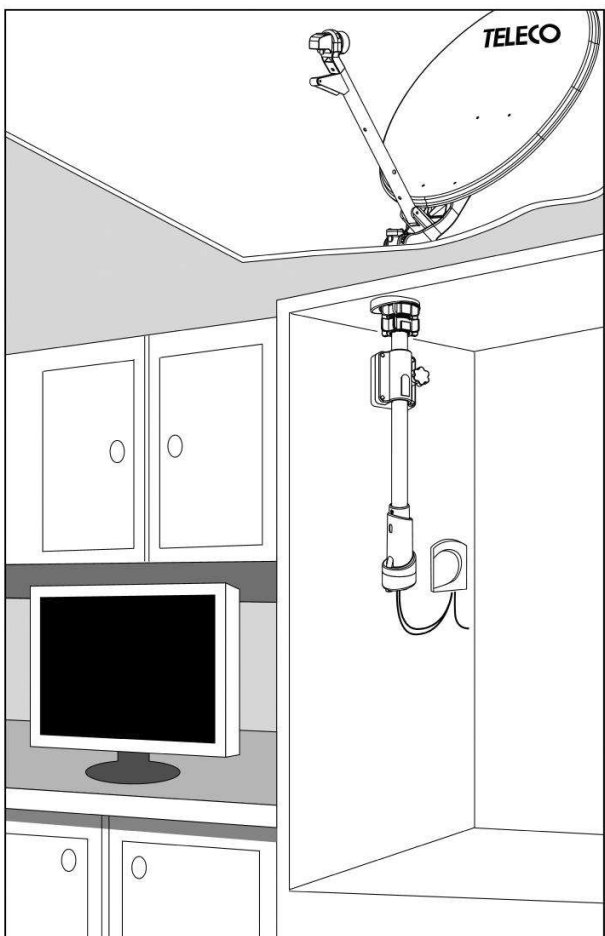
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Web site: www.telecogroup.com

Technical attendance: 899.899.856

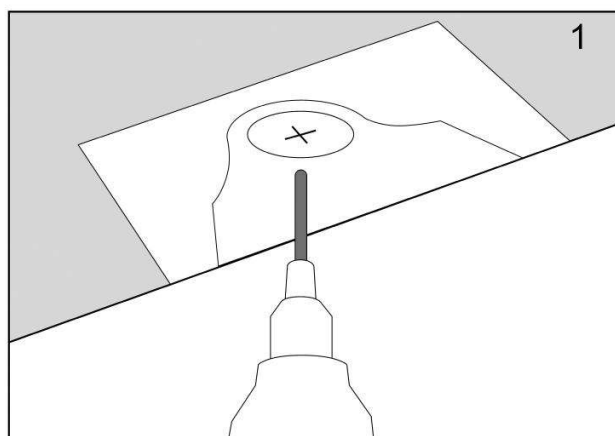
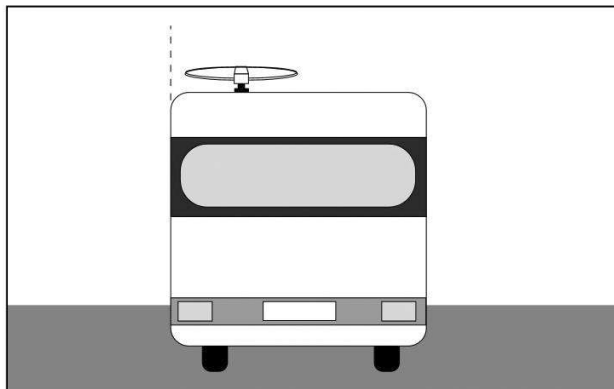
TELECO .p.a. declines all responsibility for any errors contained in this manual. All the contained information are up to the dates of printing and of the above-mentioned software revisions. TELECO .p.a. reserves the right to introduce any modification made necessary by the development of its products.

Installation instructions

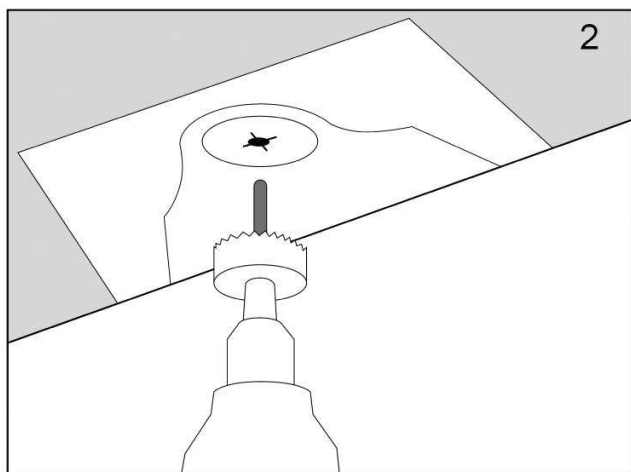


The Motosat antenna must be installed near a vertical wall where the wall outlet can be fitted

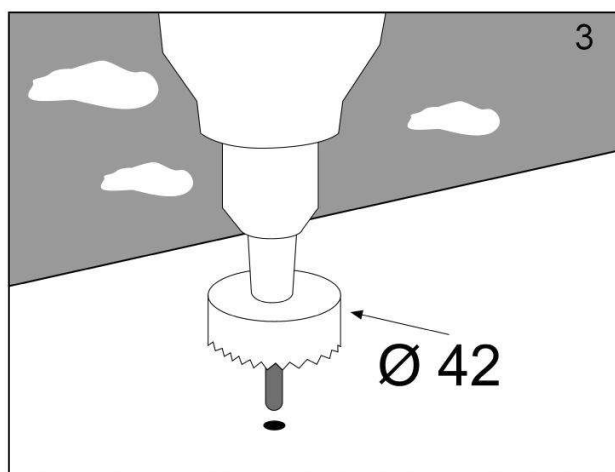
Caution:
Mount the antenna away from the vehicle roof edge to avoid overhanging the roof line when travelling.



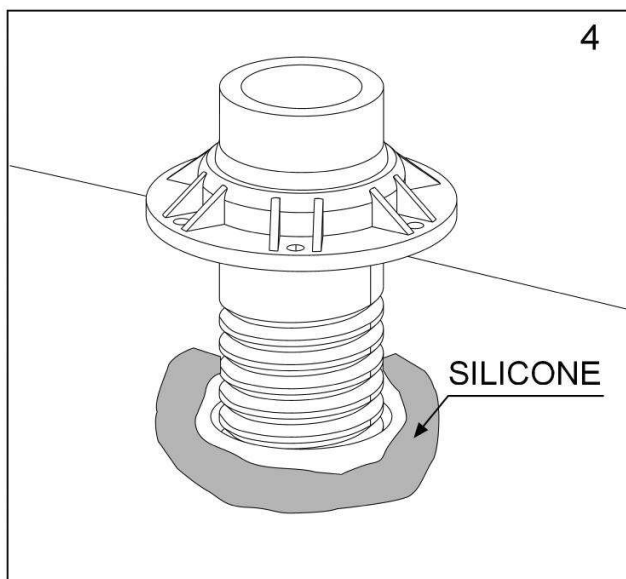
Set the drilling jig in place. Drill in the middle of the jig (page 22)



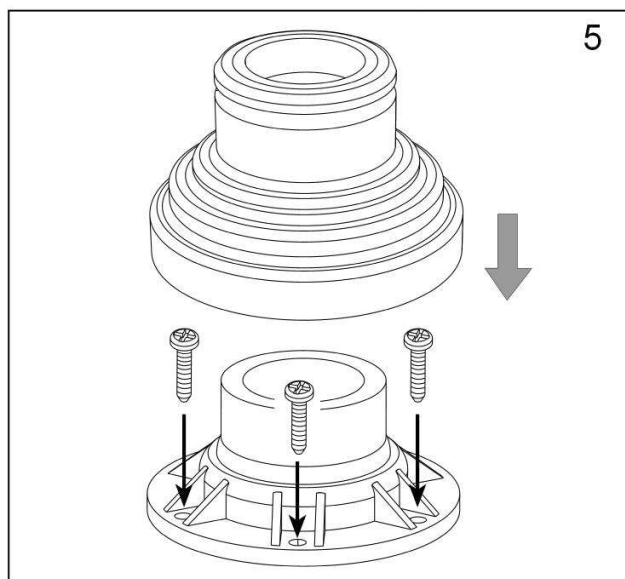
Using a dia. 42 cutter, drill the inside wall first...



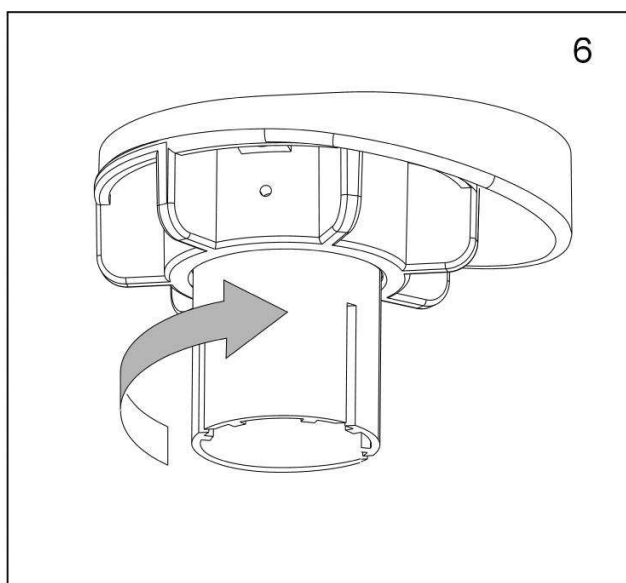
...and then drill the outside wall.



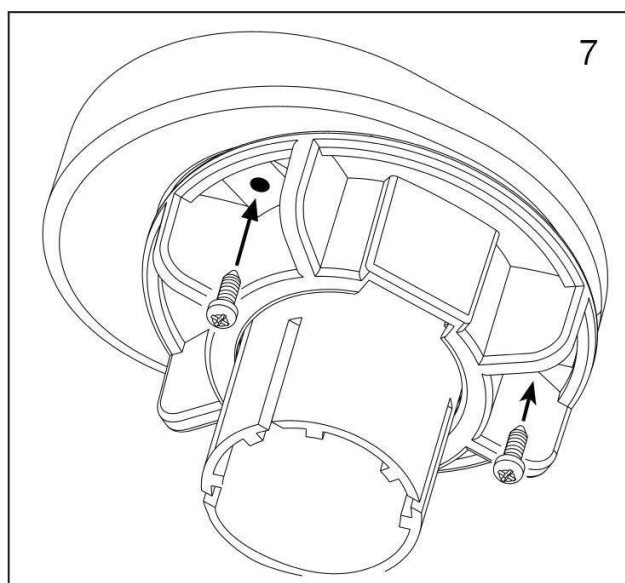
Insert the mast roof mounting bracket in the dia. 42 hole bored in the roof, making sure you apply a layer of silicone under the ring nut.



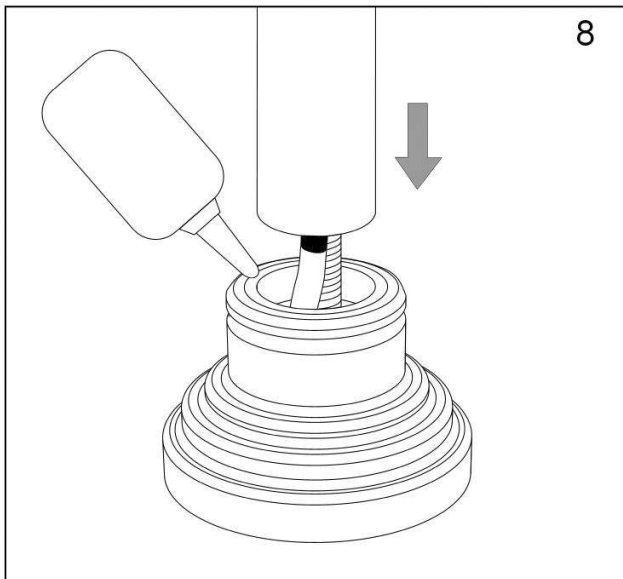
Fasten the ring nut using self-tapping screws. Place the rubber gasket over the ring nut. (Screws not supplied)



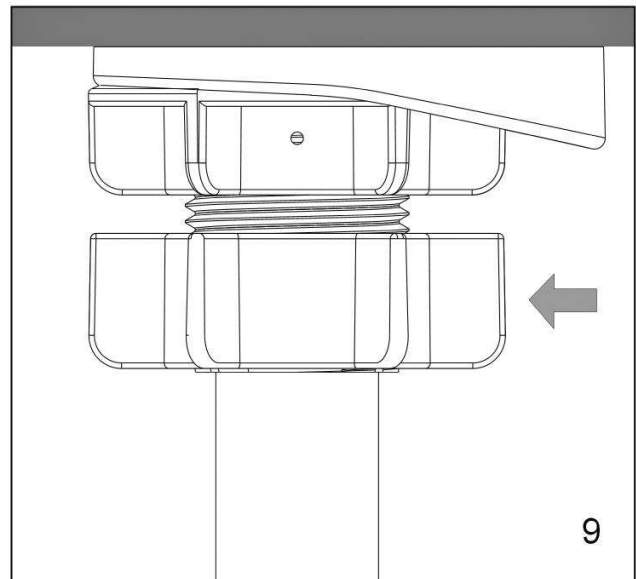
Secure the pipe lead to the roof using the ring nut and its wedge-shaped spacer. **Caution:** the antenna must be in horizontal position. The wedge-shaped spacer is used to set the antenna in the horizontal position even if the roof is inclined.



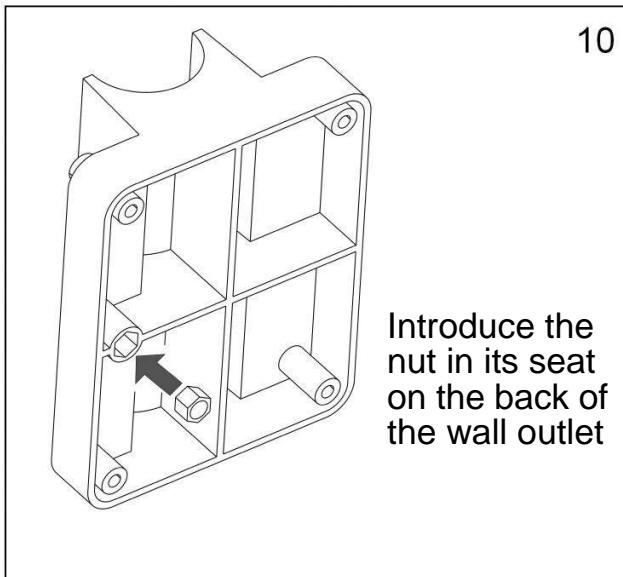
Lock the collar on the wedge spacer by applying the 2 screws (not supplied).



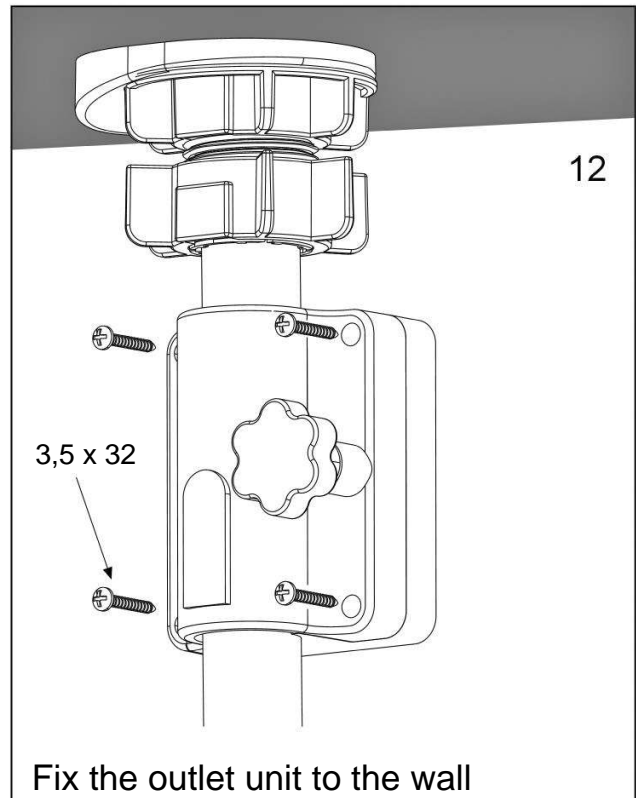
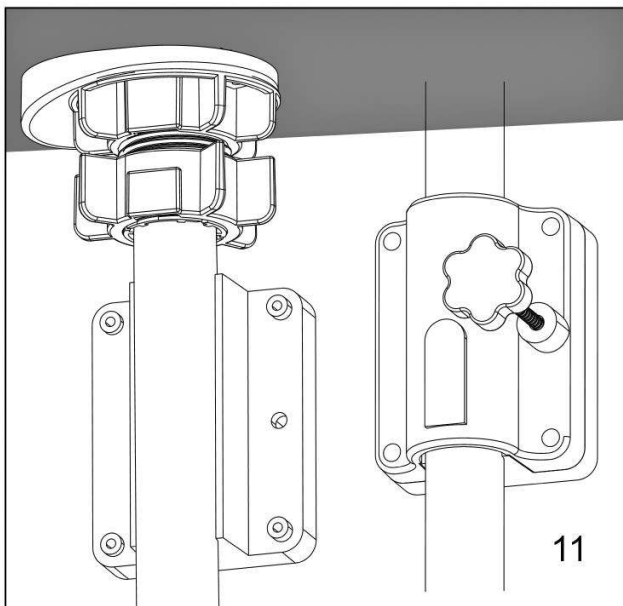
Spread a thin film of Vaseline inside the seal and introduce the mast



Tight the locking ring nut
This **mast locking** device must be screwed tight every time you wish to secure the antenna in the desired position. To turn or lift the mast, loosen this ring nut.

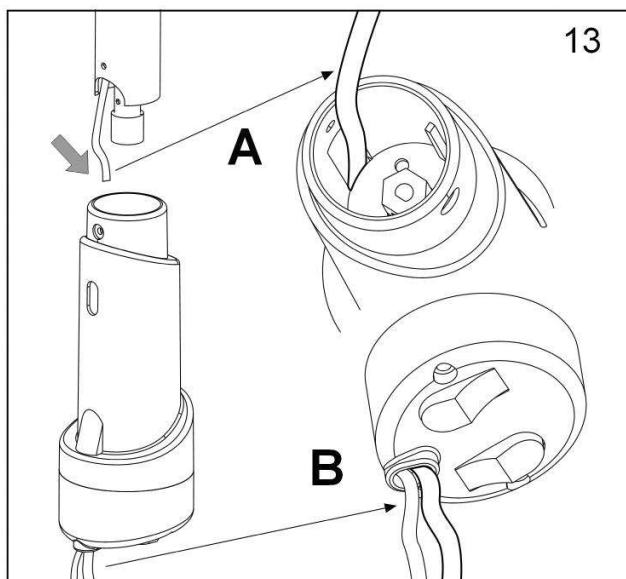


Introduce the nut in its seat on the back of the wall outlet

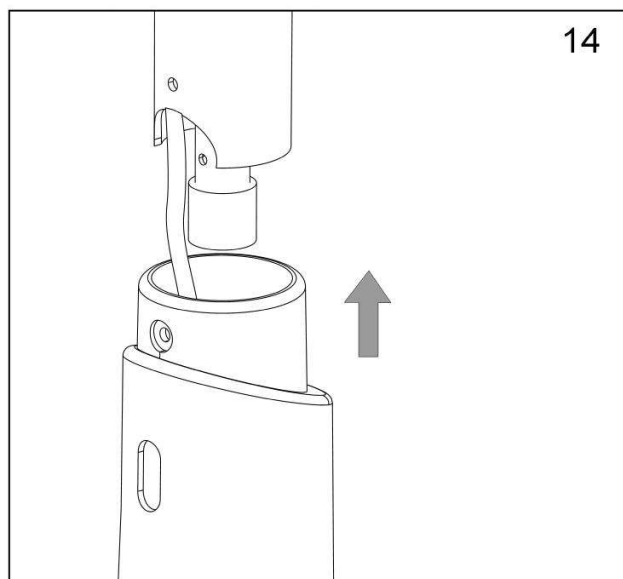


Fix the outlet unit to the wall

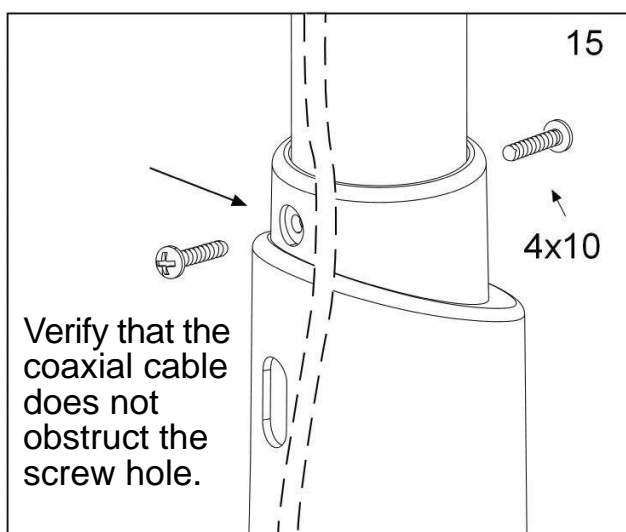
Fit the upper part of the wall outlet without tightening all the way



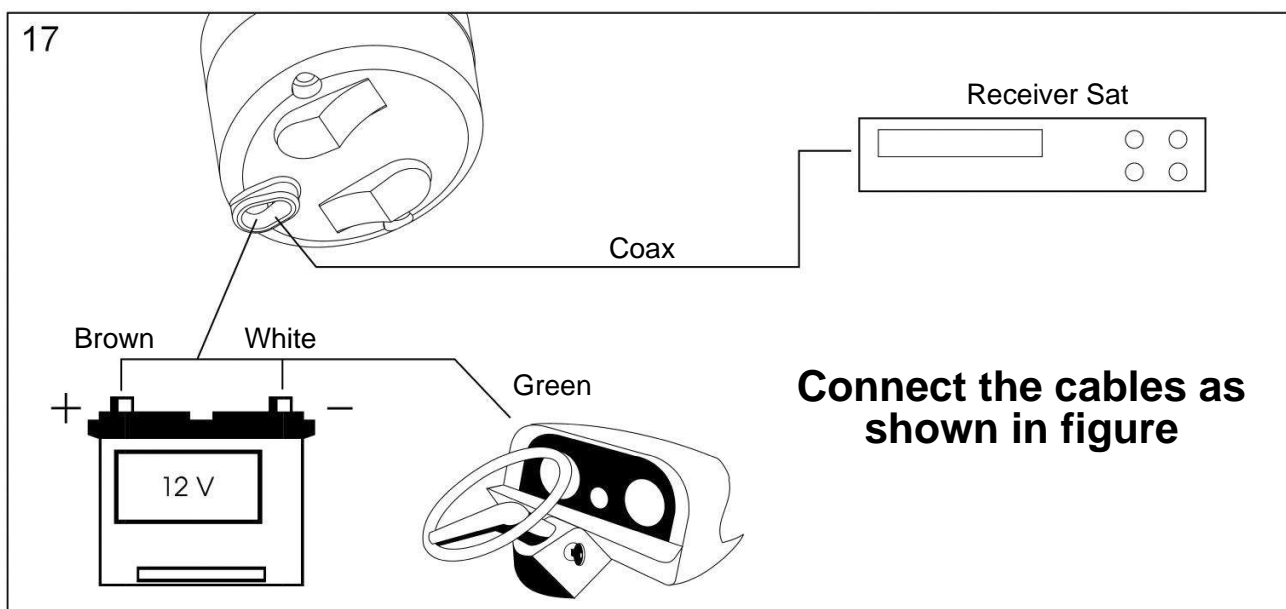
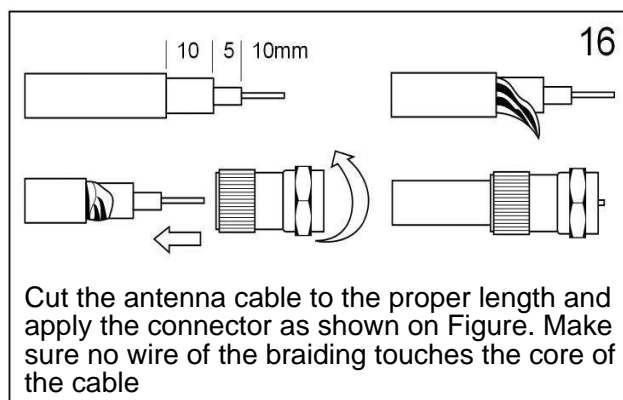
Introduce the coaxial cable in the special slot (A) and lead it out of rear bottom side of Motosat (B)

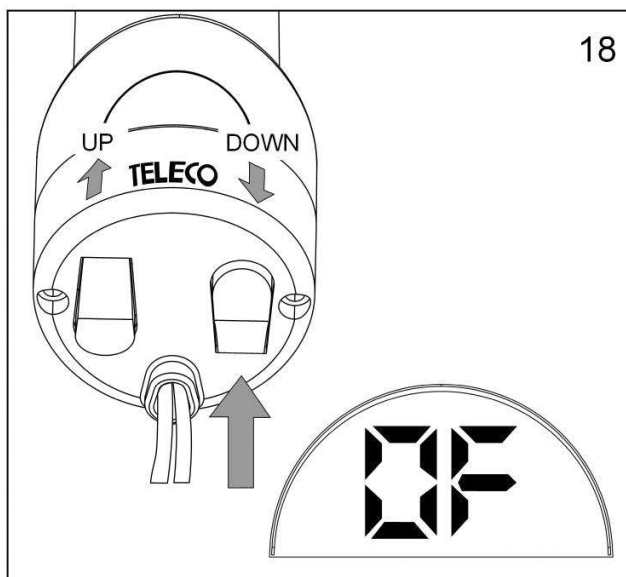


Engage Motosat in the antenna support tube until the tube holes are aligned with the Motosat holes.

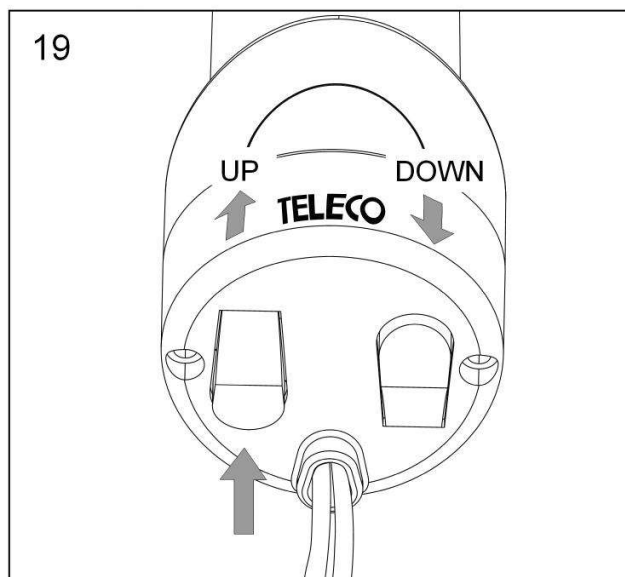


Fix Motosat to the antenna support tube with the special screws.

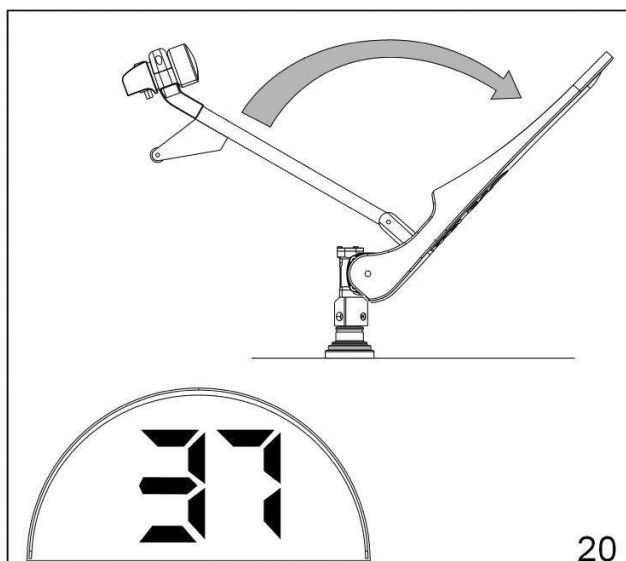




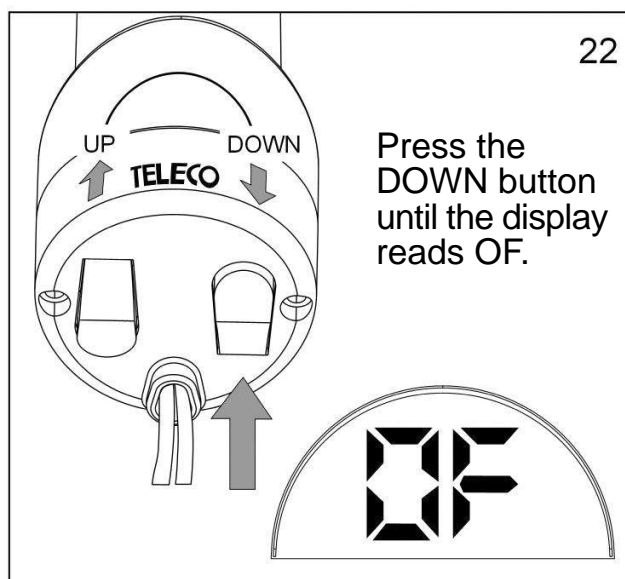
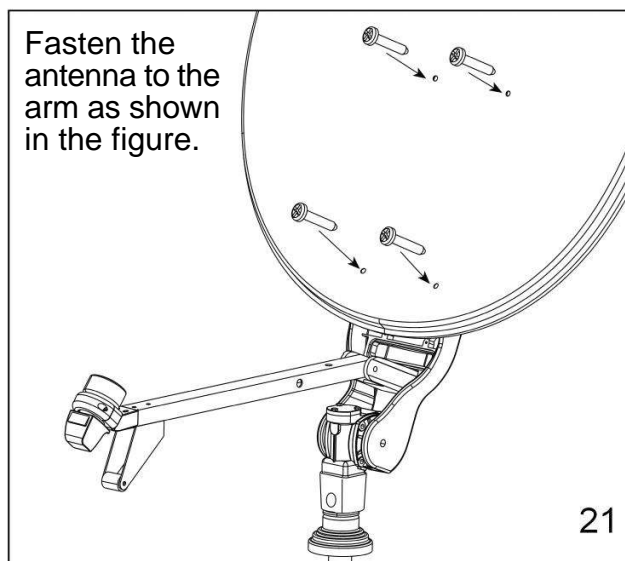
Press the DOWN button until the display reads OF.



Press the UP button until a sequence of beep sounds is obtained.

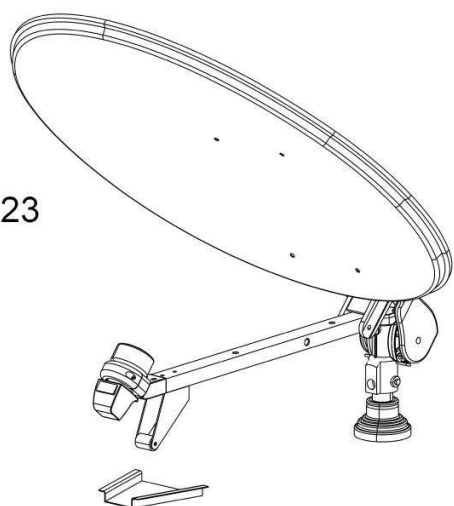


The antenna becomes automatically positioned to facilitate installation (the display reading is 37°).

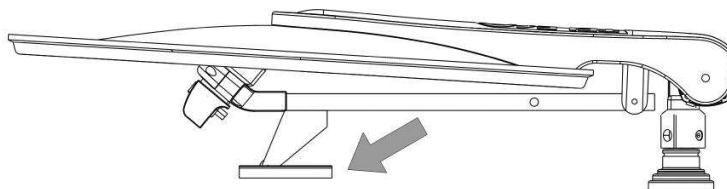


Press the DOWN button until the display reads OF.

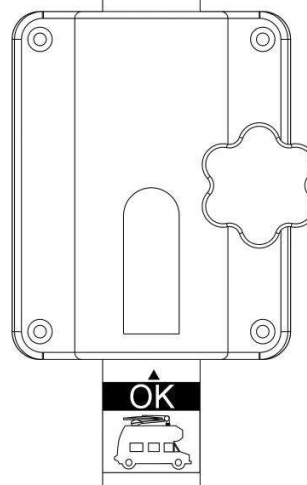
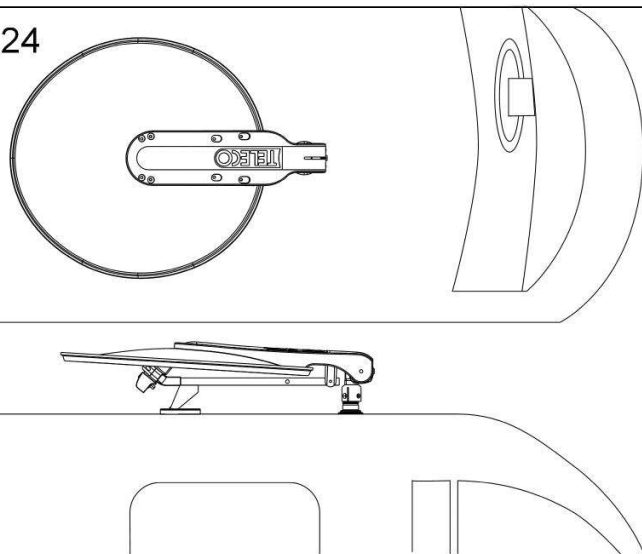
23



Check that the antenna has been lowered to the required travelling position (fig.24) and glue the steel plate below the LNB shim to the roof with jointing compound or double-sided adhesive tape.



24



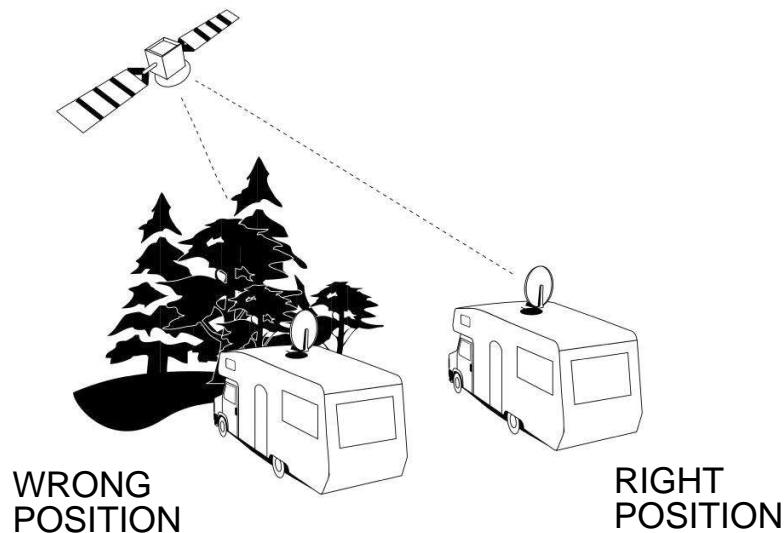
Make sure that the antenna is exactly in its stowed position. Place the sticker on the mast in such a way that you can quickly lock the antenna in the right position before every start.



The antenna must be absolutely installed according to fig. 24, i.e., the disc must be bent to the rear of the vehicle.

Important information for proper antenna tracking

Before performing antenna tracking operation, make sure you have positioned your vehicle so that the view towards the South (where Satellite signals come from) is free from any nearby obstacle (trees, houses, etc.). This way, the antenna will be free to receive signals coming from the satellite.



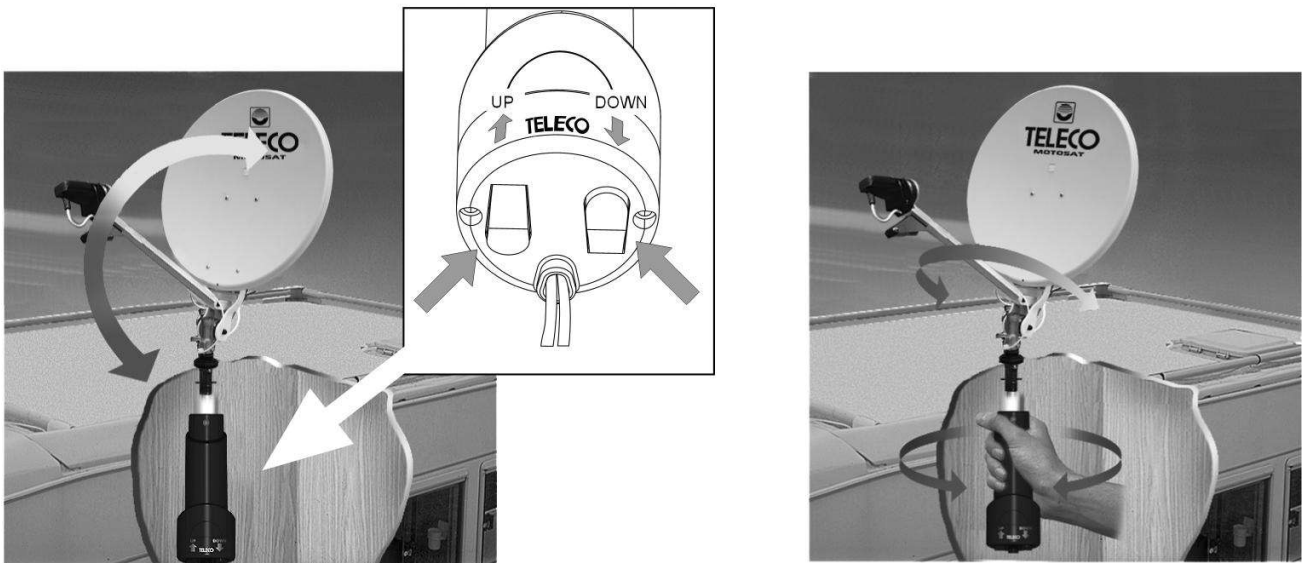
- 1) It is also important to know that satellites do not transmit with the same intensity throughout Europe, so if you are outside the reception area, your MotoSat search might be unsuccessful.
- 2) The reception areas for each Satellite can be found on the main magazines dealing in this line of business. Also remember that the larger the dish, the more reception area is available
- 3) Make sure that the vehicle battery is sufficiently charged, if the voltage drops below 11.5 volts the electronic circuit protection prevents MotoSat antenna to move.

OPERATING INSTRUCTIONS

- 1) Turn on the SAT receiver and TV set following the instructions provided by their respective manufacturers.
- 2) Hold down the “UP” button until 3 beep sounds are emitted by MotoSat. The antenna will go up to the latest stored position setting
MotoSat will automatically store the latest antenna elevation value to facilitate pointing operations.
- 3) Slowly turn the mast to the south until TV signals are displayed on the screen.
- 4) If you haven’t been able to find a TV signal, check the elevation reached on the display and compare it with the value shown in table 17. If necessary, use the “UP” and “DOWN” buttons to correct elevation.

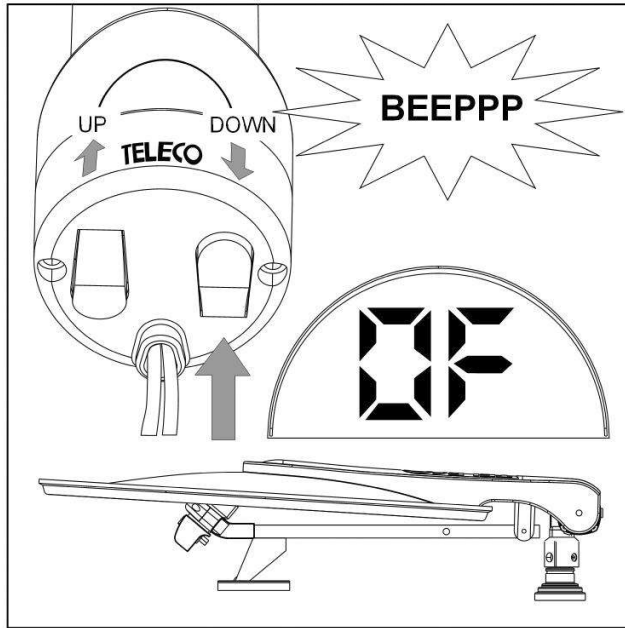
NOTE: the elevation reading on the display may be not accurate because of poor levelling of the parked vehicle.

- 5) Slowly turn the mast to the right/left until TV signals are displayed on the screen.

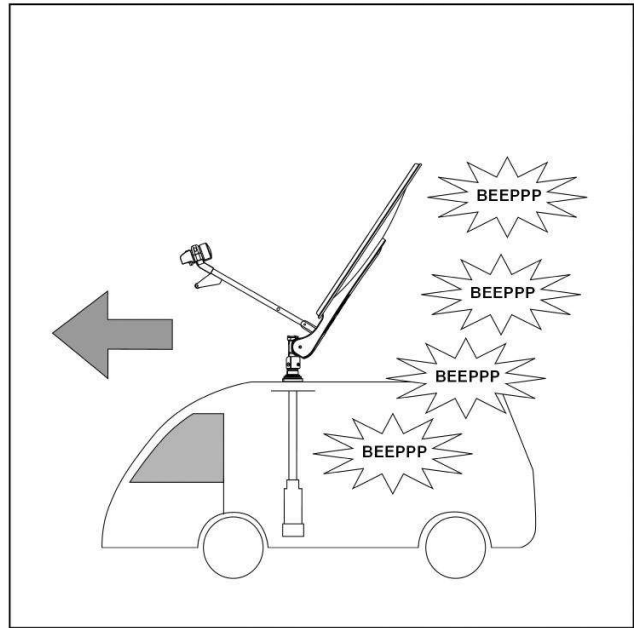


- 6) To optimise reception, fine-tune both the elevation (with the “UP” and “DOWN” buttons) and azimuth (mast).

ANTENNA FOLDING



To lower the antenna, hold down the “DOWN” button until the display reads “OF” followed by a prolonged beep sound.



If the green safety cable is connected to the vehicle starter key (fig. 17) and the vehicle is started with the antenna still up, MotoSat will warn the user of the impending danger with a long sequence of beep sounds.

TIPS FOR SUCCESSFUL SATELLITE SEARCHING

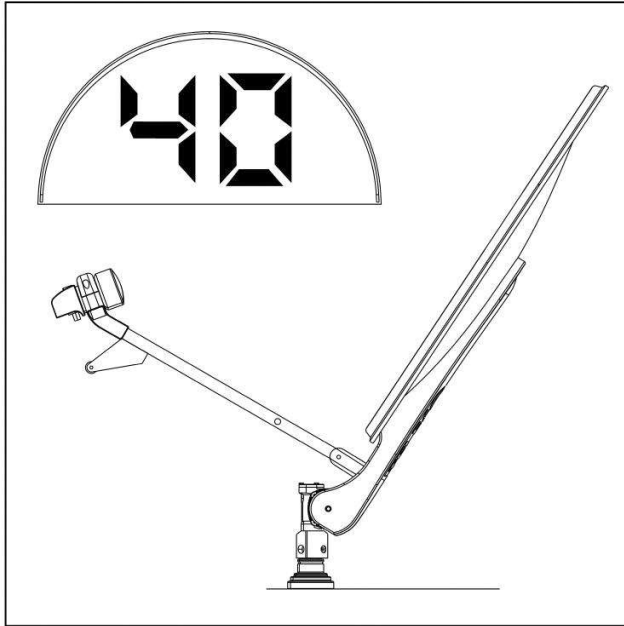
If you haven't been able to locate a signal by following the procedure described in points 1-6, we advise to:

7) Press the “UP” button to increase the previously set elevation (see point 4) by 2 degrees; then rotate the mast.

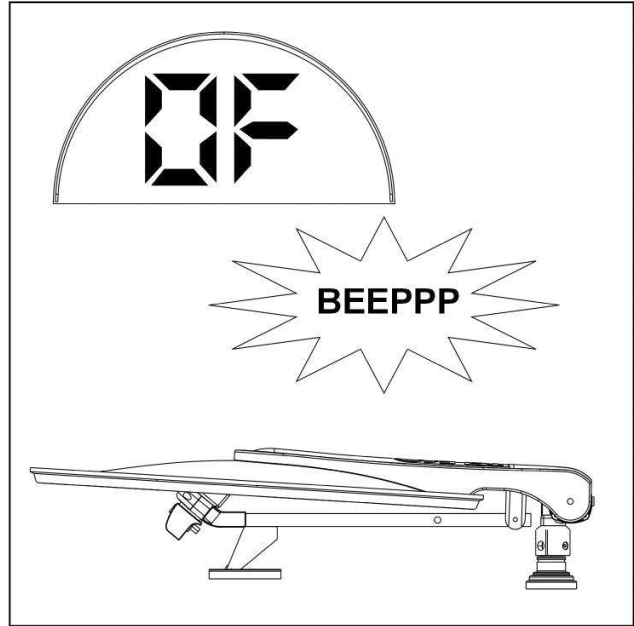
8) If no signal is displayed on the screen, press the “DOWN” button to decrease the previously set elevation (see point 4) by 2 degrees; then rotate the mast.

9) Repeat the above operations alternately, lifting and then lowering the antenna by 4 degrees with respect to the elevation value of point 4 and so on, until a signal is received. Example of a sequence beginning with a 36 degree elevation: 36, 38, 34, 40, 32, 42, 30 etc.

DISPLAY MESSAGES

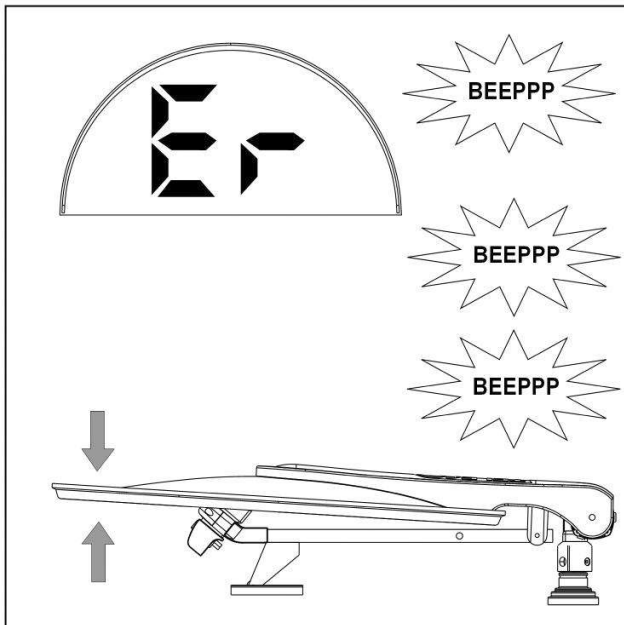


With the antenna up, the display will show the corresponding antenna elevation. The elevation reading may be not accurate because of poor levelling of the parked vehicle.



DISPLAY "OF"

The antenna is folded. This message is accompanied by a prolonged beep sound.

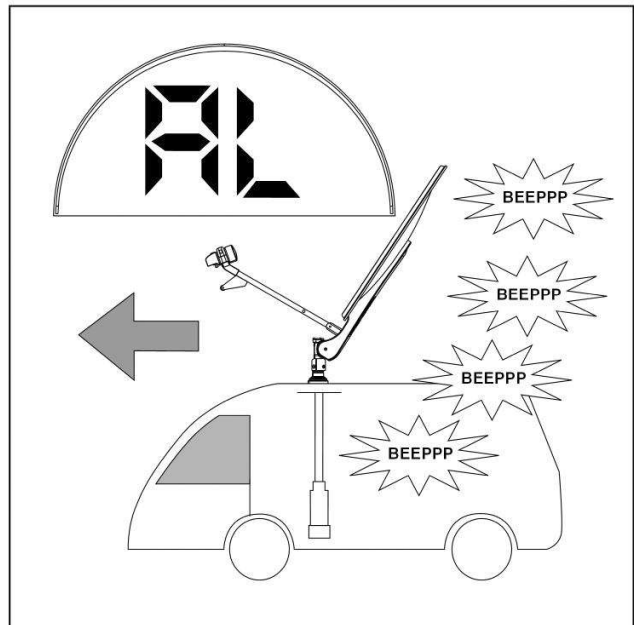


DISPLAY "Er"

The antenna has become locked. This message is accompanied by 3 beep sounds.



Remove any possible obstacle which may block the antenna (such as branches etc.)

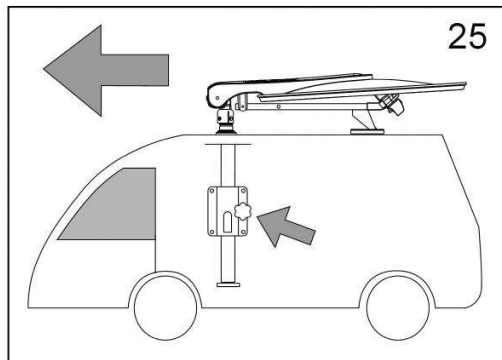


DISPLAY "AL"

The vehicle has been started with an unfolded antenna. This message is accompanied by a long sequence of beep sounds.



Lower the antenna pushing the DOWN button.



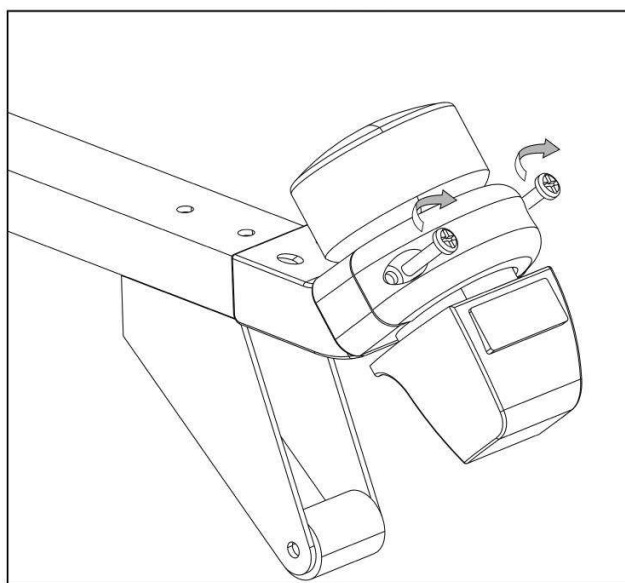
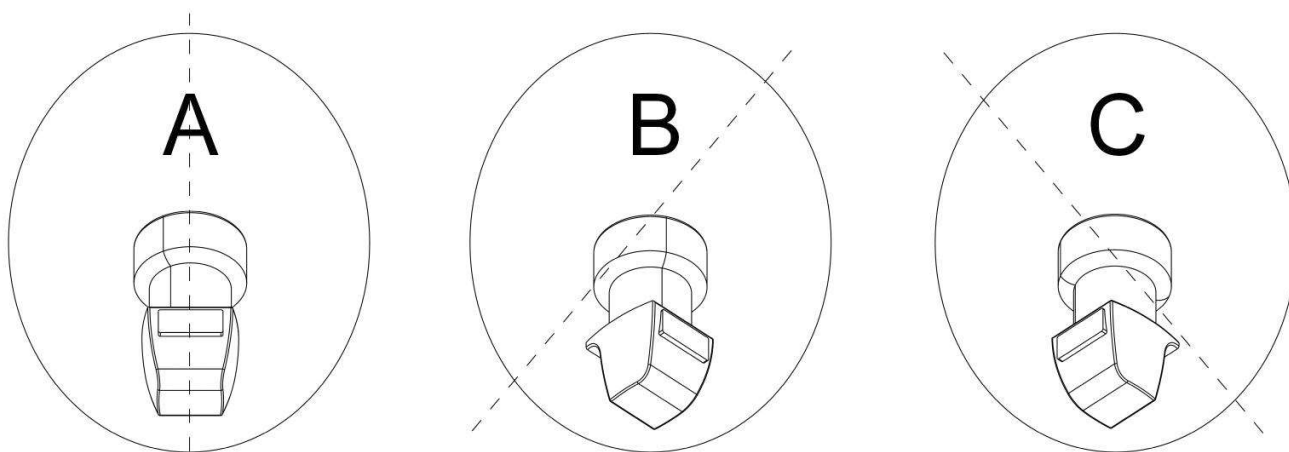
Before starting the vehicle, make sure you have brought down the antenna to its standby position and tightened the knob hard

Failure to comply with these conditions may result in product degradation which the manufacturer cannot be held responsible for.

- 1) It is recommended not to use the antenna under strong wind conditions (80 km/h). Failure to comply with this condition may result in product degradation which the manufacturer cannot be held responsible for.
- 2) The manufacturer declines any liability for all degradations suffered by the product owing to misuse.

LNB rotation for ideal reception in Europe's extreme (South-West or South-East) areas

Remember that the outside converter (a.k.a. LNB) has its own assembly position which must be complied with. Otherwise you will not receive any signal. The pre-set mounting position for the LNB is along the centre line of the disk (fig. A). With this configuration, the Voyager system works correctly in most European countries. However, if you are in areas very far from the satellite orbital position, it might be necessary to adjust the converter angle. In particular, if you wish to receive transmissions from the satellites Astra 19E, Astra 28E or HotBird 13E, while you find yourself in Portugal or Morocco, your converter angle should be adjusted as shown in (fig. B), while if you are in Turkey, to receive the same satellites you should set your converter to the position (fig. C).



- 1) Loosen the screws on the LNB locking U-bolt
- 2) Turn in the Clockwise (West) or Anti-clockwise (South-East) direction
- 3) Lock the LNB again by screwing down the screw

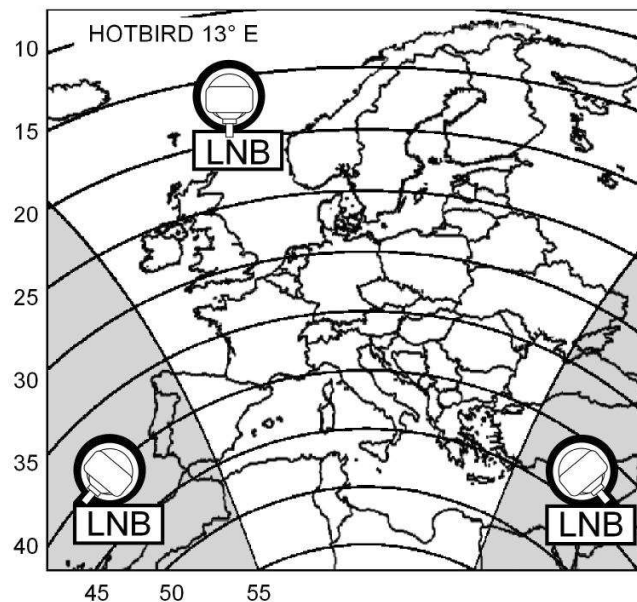
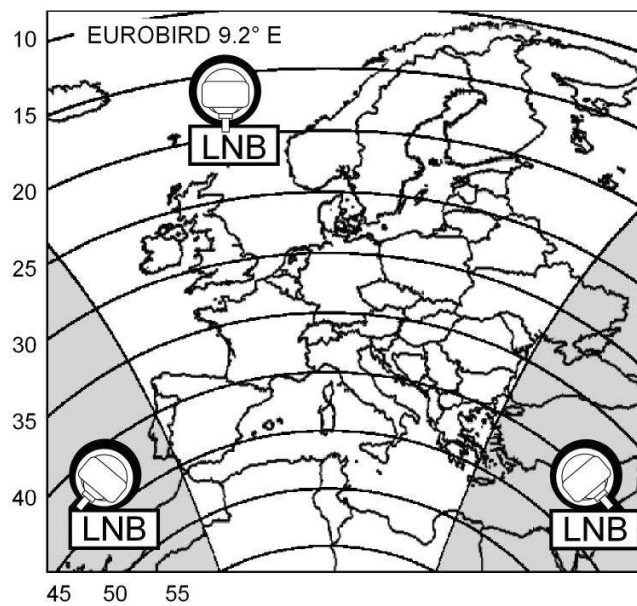
Place	Position	HotBird 13E	Astra 19E	Astra 28E
Lisbona	B	25°	28°	37°
Casablanca	B	27°	34°	41°
Ankara	C	22°	15°	5°

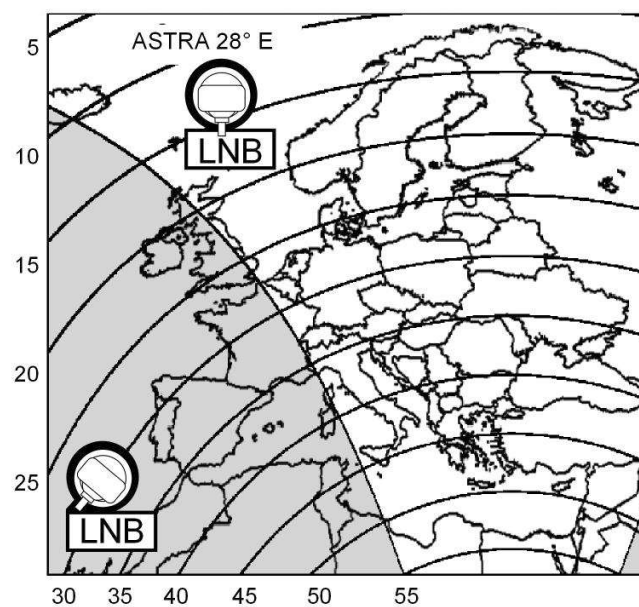
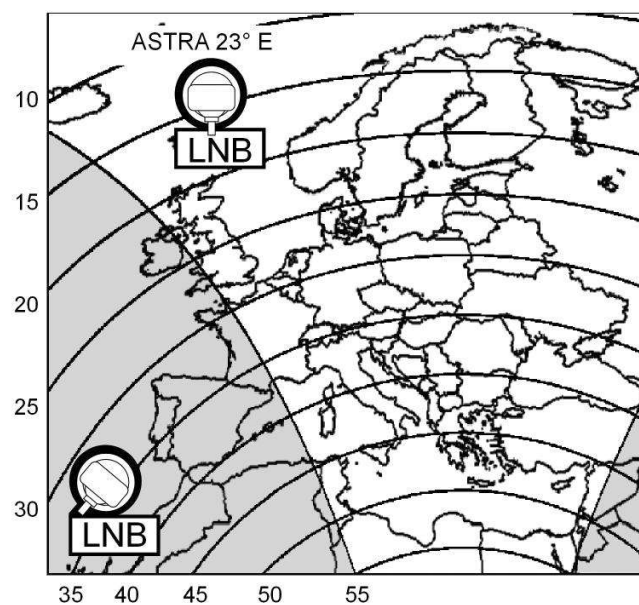
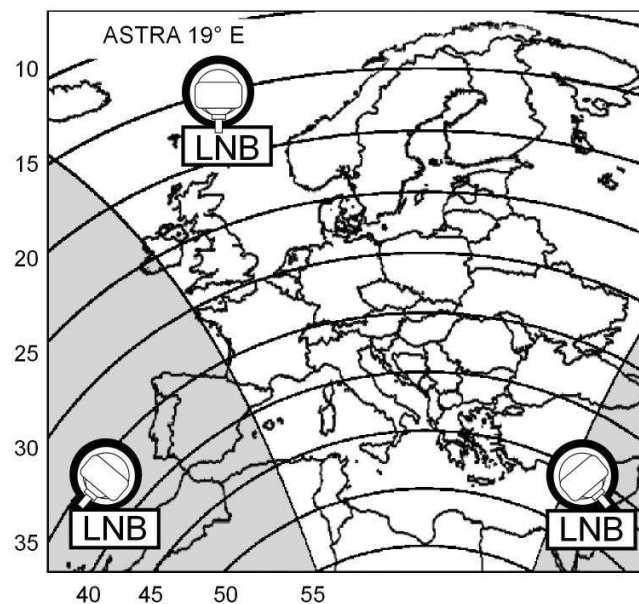
Dish elevation maps

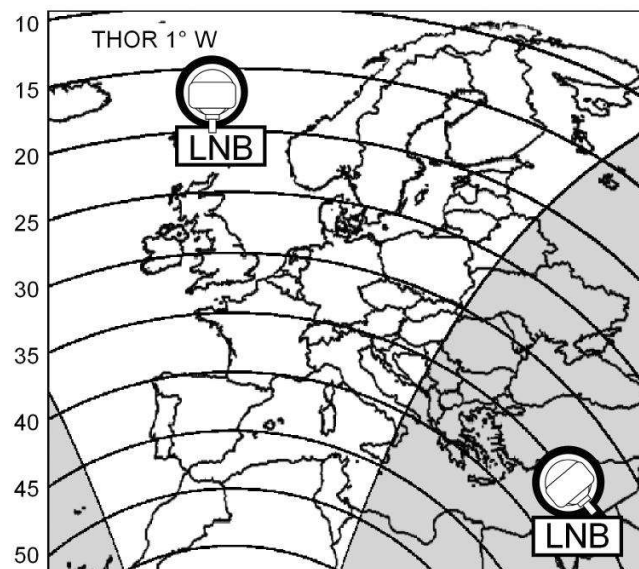
To correctly point the dish towards your required satellite, it is very important to tilt the dish to the exact angle.

Check your position on the map, then set the dish elevation figure in degrees according to the figure on the required satellite map.

The grey sections in the various maps identify the geographical areas in which LNB adjustment may be necessary.

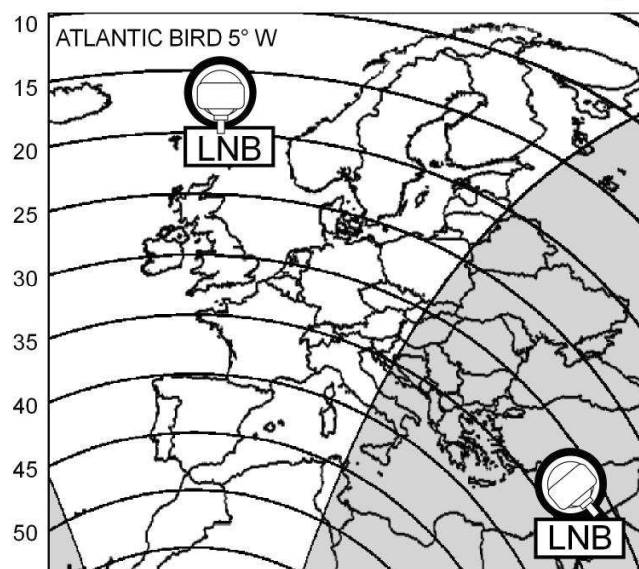




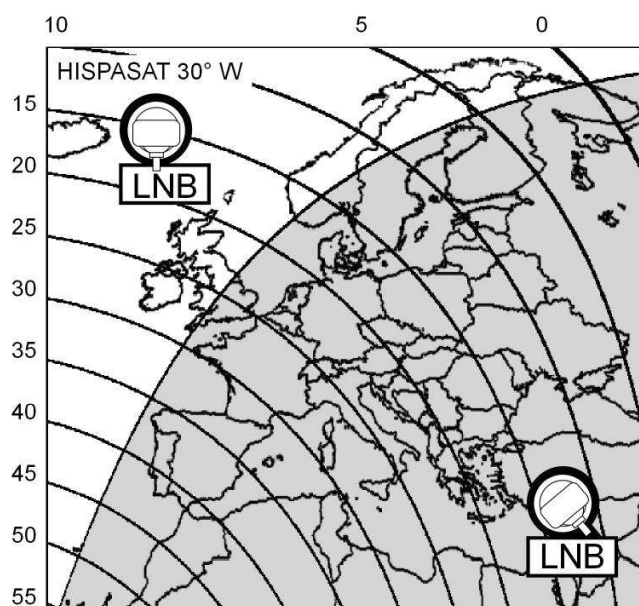


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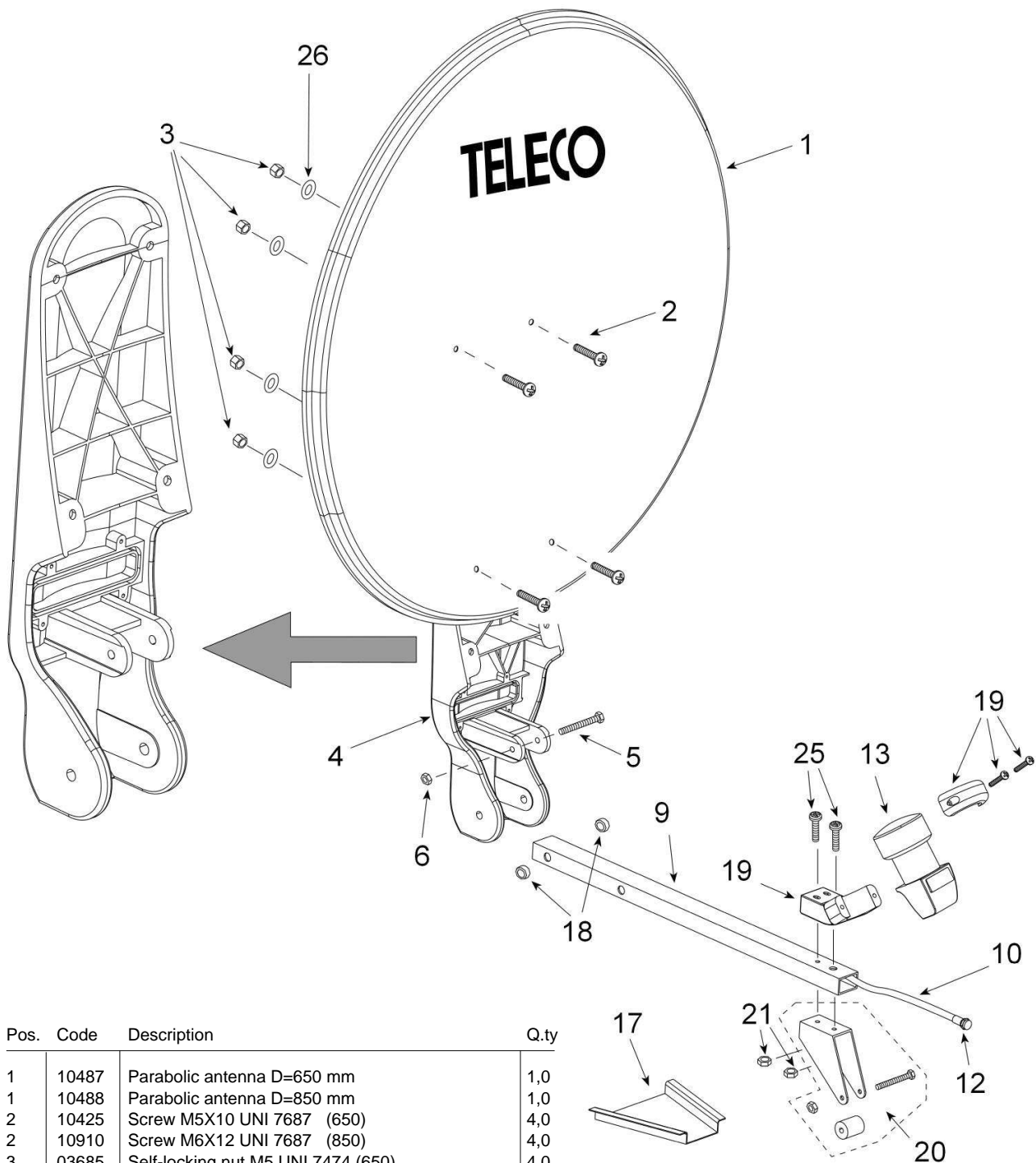


MotoSat elevation to locate satellites in Europe

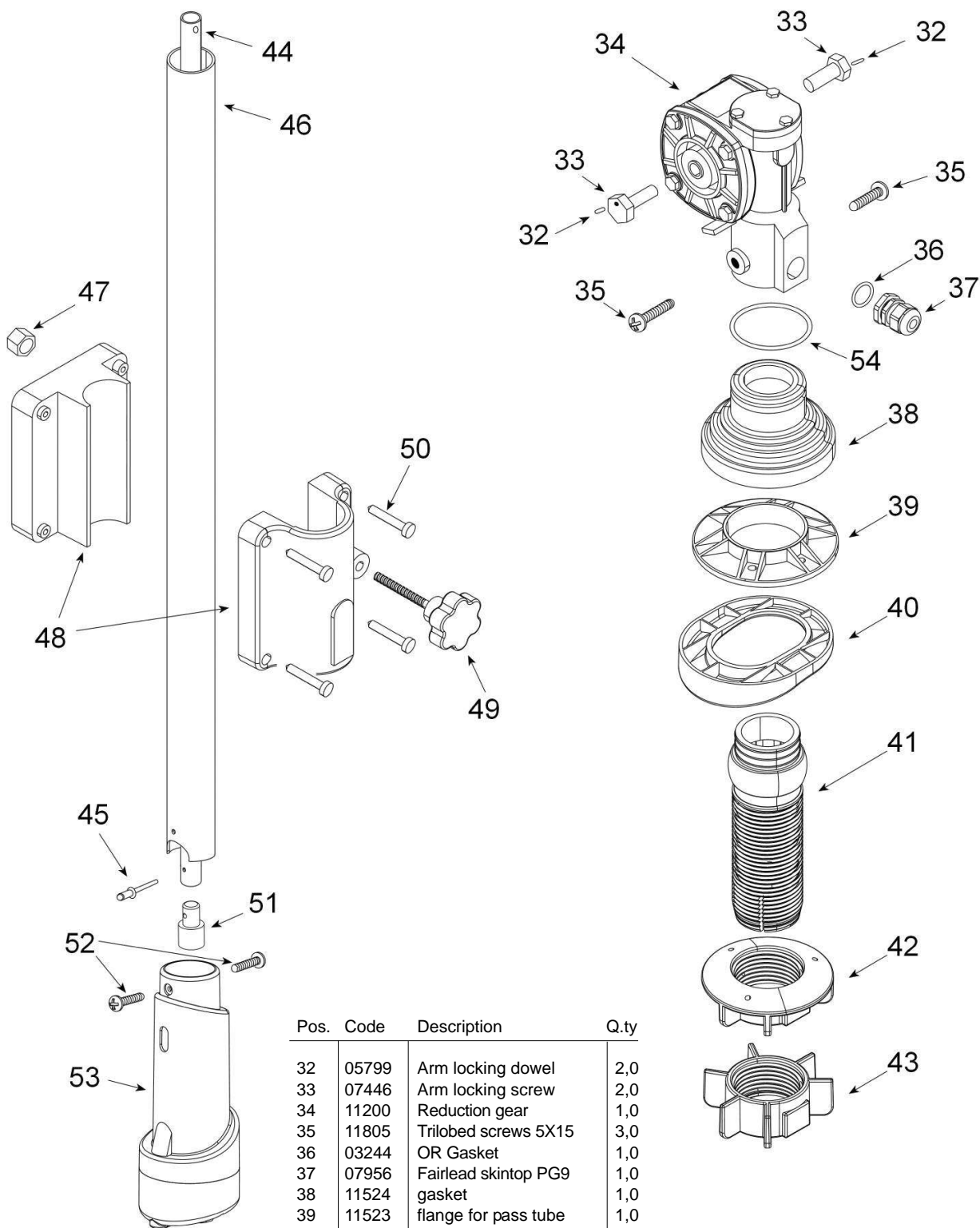
Country	Town	HOT BIRD 13° EST	ASTRA 19° EST	ATLANTIC BIRD 3 5° WEST	TURKSAT 42° EST	ARABSAT 26° EST
ALBANIA	Tirana	42	42	36	37	42
ALGERIA	Algiers	46	44	47	31	41
	Costantine	47	45	45	34	43
	Oran	46	43	48	29	40
AUSTRIA	Innsbruck	36	35	33	28	34
	Salzburg	35	35	32	28	34
	Vienna	35	35	31	29	34
BALEARICS	Palma	44	42	44	29	39
BELGIUM	Antwerp	31	30	31	22	28
	Brussels	31	30	31	22	28
	Gand	31	30	31	21	28
	Liege	31	30	31	23	29
BULGARIA	Burgas	39	40	31	39	41
	Sofia	40	41	33	37	41
CZECH REPUBLIC	Brno	33	34	30	29	33
	Prague	33	32	30	27	32
DENMARK	Copenhagen	27	27	25	21	26
EGYPT	Alexandria	49	52	38	52	54
	Cairo	50	53	38	53	55
FINLAND	Helsinki	21	22	17	20	22
FRANCE	Lyon	36	35	36	26	33
	Marseille	39	37	38	28	36
	Paris	36	35	36	26	33
	Toulouse	38	37	39	26	34
GERMANY	Berlin	30	30	28	24	29
	Cologne	31	31	31	23	29
	Hamburg	30	28	28	22	27
	Munich	35	34	33	27	33
	Stuttgart	34	34	33	26	32
GIBRALTAR		44	41	48	25	37
GREECE	Athens	45	46	37	42	46
	Iraklion	47	49	38	45	49
	Patras	45	46	38	41	46
	Thessalonica	42	43	35	39	43
HUNGARY	Budapest	35	35	31	31	35
	Pecs	37	37	32	32	36
ICELAND	Reykjavik	12	11	16	2	8
ITALY	Brindisi	43	43	37	37	42
	Cagliari	44	43	42	33	41
	Firenze	39	39	37	31	37
	Milano	37	37	36	28	35
	Napoli	43	43	39	35	41
	Palermo	46	45	42	37	44
	Roma	42	41	38	33	40
	Venezia	38	37	35	30	36
LYBIA	Tripoli	52	51	47	41	49
MAROCCO	Casablanca	45	41	51	24	37
	Fes	46	43	50	27	39
	Marrakech	46	42	53	25	38
	Tangiers	44	41	48	25	37
NETHERLANDS	Amsterdam	30	29	29	21	27
	Eindhoven	31	30	30	22	28
	Rotterdam	30	29	30	21	27
NORWAY	Oslo	22	22	21	17	21
	trondheim	19	19	18	15	18
POLAND	Cracow	32	33	28	29	32
	Gdansk	28	28	24	24	28
	Warsaw	29	30	25	27	30
	Wroclaw	31	32	28	27	31
PORTUGAL	Lisbon	40	36	45	21	32

MotoSat elevation to locate satellites in Europe

Country	Town	HOT BIRD 13° EST	ASTRA 19° EST	ATLANTIC BIRD 3 5° WEST	TURKSAT 42° EST	ARABSAT 26° EST
ROMANIA	Porto	37	35	42	20	31
	Bucarest	37	38	30	36	39
	Timisoara	37	37	31	34	37
RUSSIA	St. Petersburg	20	21	16	21	22
	Moscow	23	25	16	27	26
SLOVAKIA	Bratislava	35	35	31	30	34
	Kosice	33	34	29	31	34
SPAIN	Barcelona	41	39	42	27	36
	Bilbao	40	37	42	24	34
	Carthagene	44	42	46	28	38
	Madrid	40	38	43	24	34
	Seville	42	39	47	24	35
SWEDEN	Goteborg	25	24	23	20	24
	Stockholm	23	23	20	20	23
SWITZERLAND	Berne	36	35	35	26	33
	Geneve	36	35	36	26	33
	Zurich	35	35	34	27	33
TUNISIA	Tunis	47	46	44	35	44
TURKEY	Ankara	39	42	29	43	43
	Istanbul	40	42	31	41	43
	Izmir	44	45	35	43	46
UNITED KINDOM	Belfast	28	27	27	20	25
	Cardiff	31	29	31	21	27
	Dublin	29	28	29	21	27
	Glasgow	26	25	26	18	24
	Inverness	24	23	24	17	22
	Limerick	30	29	29	23	28
	London	30	29	31	19	26
	Manchester	27	26	29	17	24
	Newcastel	26	25	27	17	23
	Plymouth	32	31	32	22	29
	York	27	26	28	17	24



Pos.	Code	Description	Q.ty
1	10487	Parabolic antenna D=650 mm	1,0
1	10488	Parabolic antenna D=850 mm	1,0
2	10425	Screw M5X10 UNI 7687 (650)	4,0
2	10910	Screw M6X12 UNI 7687 (850)	4,0
3	03685	Self-locking nut M5 UNI 7474 (650)	4,0
3	03684	Self-locking nut M6 UNI 7474 (850)	4,0
4	10998	Support dish arm 850	1,0
4	10757	Support dish arm 650	1,0
5	10979	Screw M6x55 UNI 5737	1,0
6	03684	Self-locking nut M6 UNI 7474	1,0
9	10561	VOYAGER 65 LNB - tube holding	1,0
9	10564	Voyager 85 LNB - tube holding	1,0
10	10361	Coaxial Cable	1,0
12	12986	F50 F connector	1,0
13	15718	LNB Stark S1	1,0
17	06132	Arm rest	1,0
18	06076	Nylon bush	2,0
19	08628	LNB Plastic Kombi-type support	1,0
20	12878	Spacer clamp with wheel	1,0
21	09015	Nut	2,0
22	09014	Screw M5x30 UNI 5732	2,0
26	15616	Flat washer D 5	4,0
26	15617	Flat washer D 6	4,0



Pos.	Code	Description	Q.ty
32	05799	Arm locking dowel	2,0
33	07446	Arm locking screw	2,0
34	11200	Reduction gear	1,0
35	11805	Trilobed screws 5X15	3,0
36	03244	OR Gasket	1,0
37	07956	Fairlead skintop PG9	1,0
38	11524	gasket	1,0
39	11523	flange for pass tube	1,0
40	11526	conic inclination adapter	1,0
41	11525	Pipe lead	1,0
42	11528	conic ring nut	1,0
43	11527	locking ring nut	1,0
44	10983	Adjustment shaft	1,0
45	03605	Tear rivet	1,0
46	12972	Supporting tube	1,0
47	02125	Nut- M6x1,5 UNI 5588	1,0
48	02354	Fastening bracket	1,0
49	02018	Lock UNIT KNOB	1,0
50	02083	Self-tapping screws	4,0
51	12962	hexagonal female insert zamak	1,0
52	02075	self tapping screw M4x10	2,0
53	13027	Electric motor knob for Motosat	1,0
54	12030	Rubber gasket spring	1,0



CONFORMITY CERTIFICATE

The manufacturer Teleco Spa

Via Majorana nr. 49, 48022 Lugo (RA)

Declares under its own responsibility that the following products:

MOTOSAT 65 - MOTOSAT 55

which are the subject of this certificate, conform to the following norms:

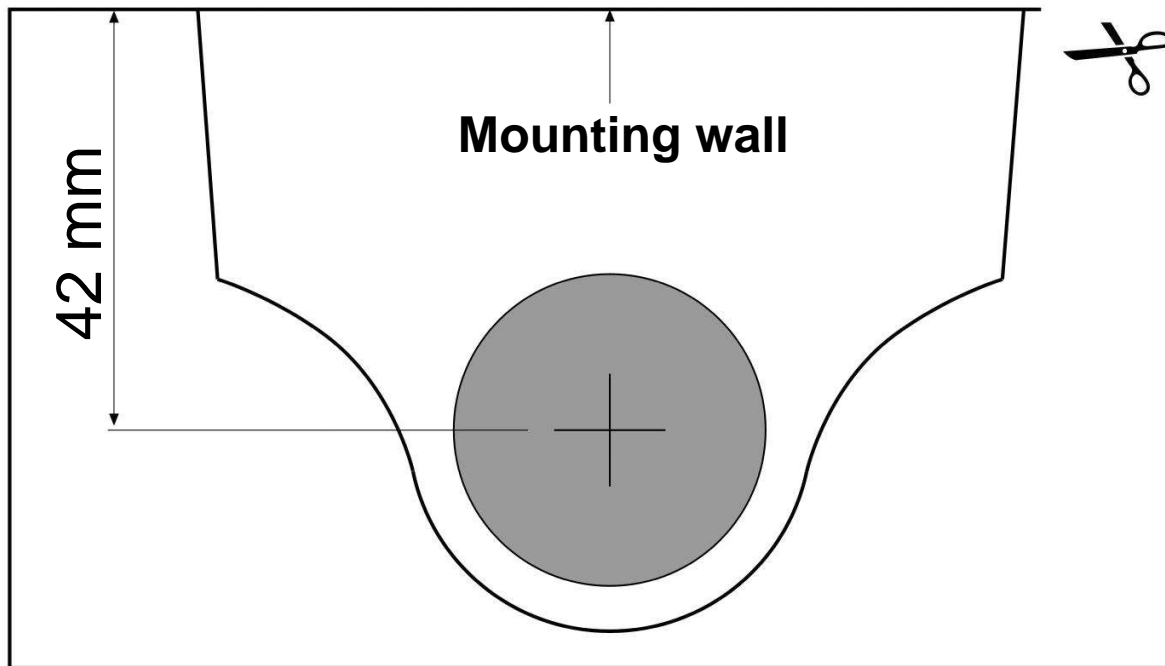
EN 60065: 2002
EN 55013: 2001 + A1: 2003
EN 61000 – 3 - 2: 2000 + A2: 2500
EN 61000 – 3 – 3: 1995 + A1: 2001 + A2: 2005
EN 55020: 2002 + A2: 2005

according to the terms of the European directive 2006/95/EC
Low Voltage (modified by 93/68/CEE) and
2004/108/CEE of Electromagnetic Compatibility
(modified by 92/31/CEE e 93/68/CEE)
of the European Parliament.

Lugo 31 / 08 / 2014

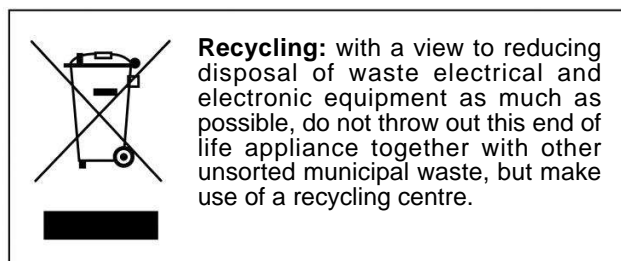
THE PRESIDENT

Ing. Raul Fabbri



Dampen and locate on the mounting position

Cut-out drawing in 1:1 scale





Group
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