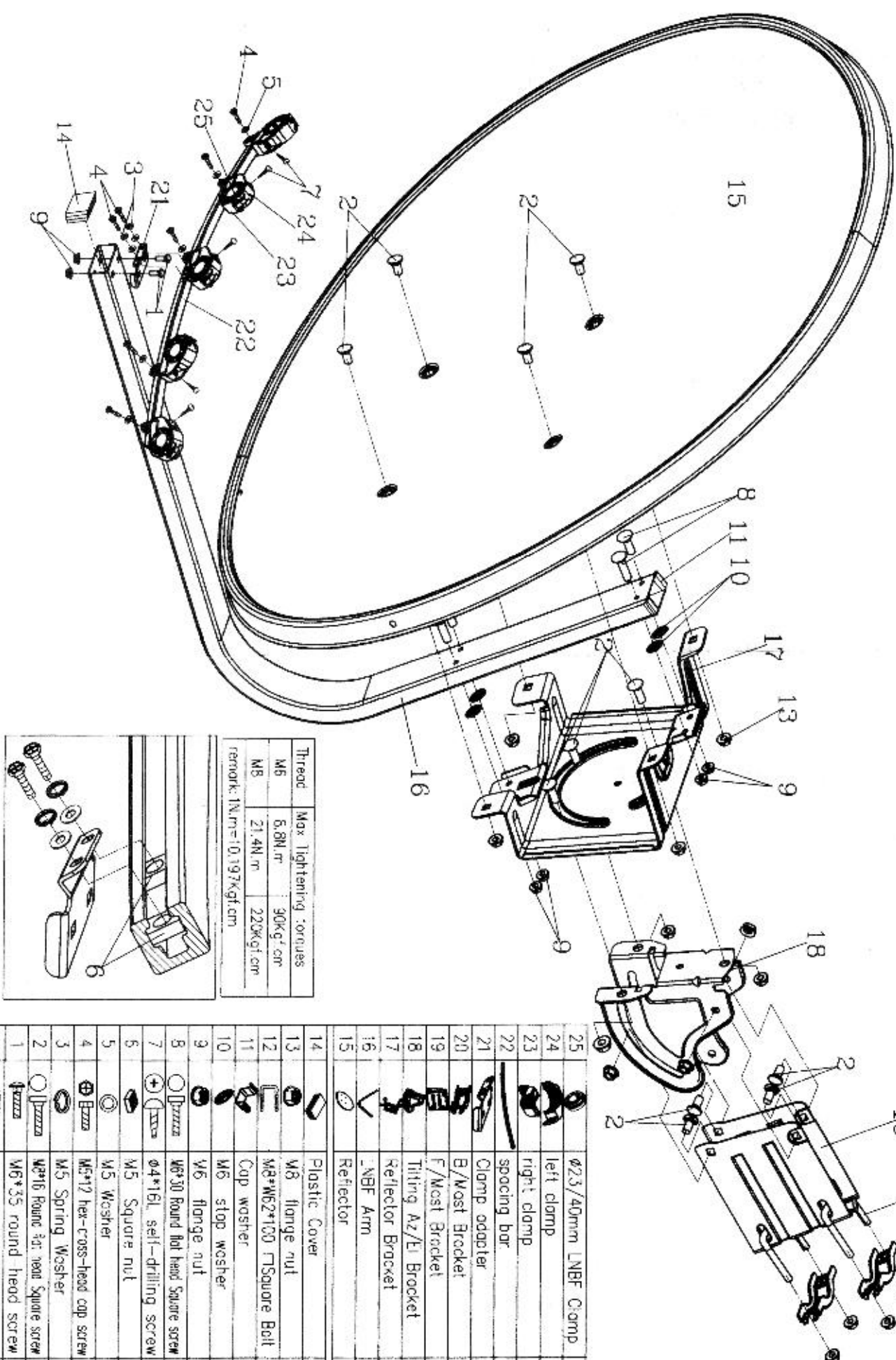
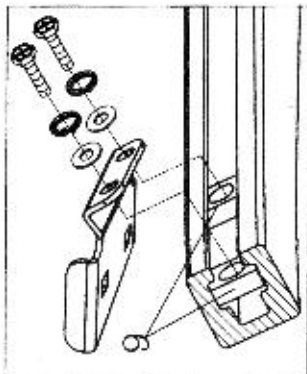


E-85 Multi-focus dish



Thread	Max Tightening Torques
M6	6.8N.m 30kgf.cm
M8	21.4N.m 220kgf.cm
remark: 1N.m=10.197kgf.cm	

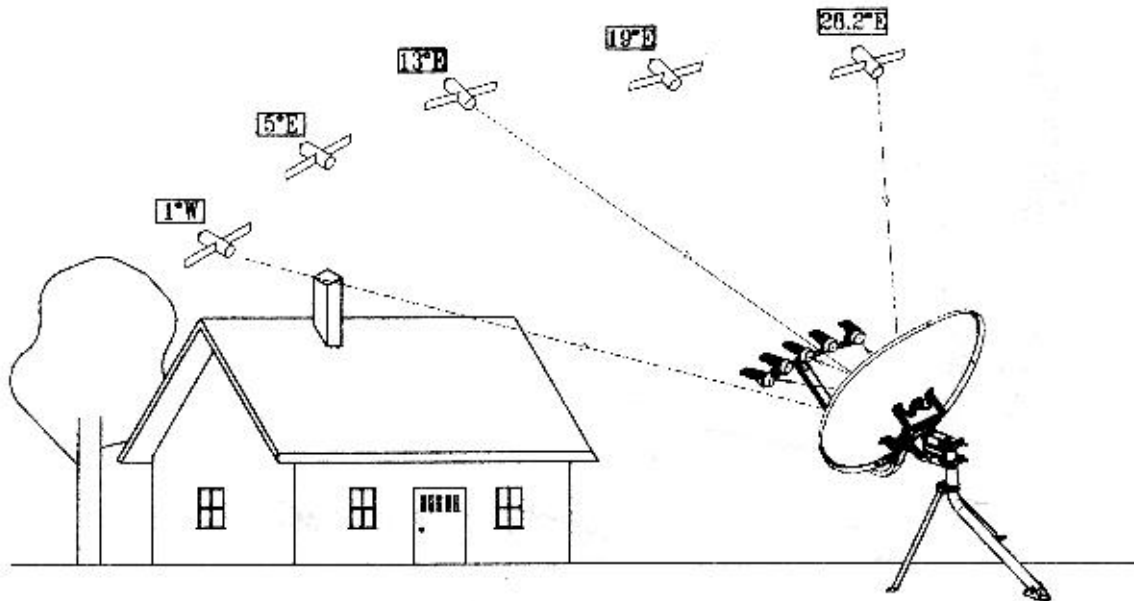


NO.	ITEM	DESCRIPTION	QTY
25		Left clamp	5
24		Right clamp	5
23		Spacing bar	5
22		Clamp adapter	1
21		B/Most Bracket	2
20		F/Most Bracket	1
19		Tilting Az/E Bracket	1
18		Reflector Bracket	1
17		Reflector Arm	1
16		Reflector	1
15		Plastic Cover	1
14		W8 flange nut	15
13		M8*W62*100 Square Bolt	2
12		Cap washer	1
11		W6 stop washer	4
10		W6 flange nut	6
9		W6*30 Round flat head Square screw	4
8		W6*16L self-drilling screw	5
7		W5 Square nut	7
6		W5 Washer	7
5		M5*12 hex-cross-head cap screw	7
4		M5 Spring Washer	2
3		W6*16 Round flat head Square screw	11
2		W6*35 round thread screw	2

E-85 Multifocus dish Installations manual

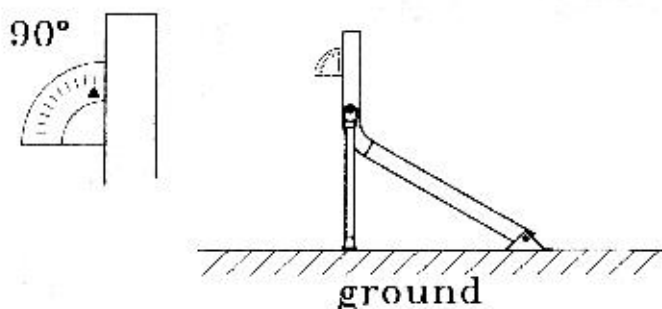
STEP 1. Finding suitable antenna site.

A suitable antenna site requires an unobstructed view, and a stable antenna mounting site. There should be no trees, leaves or buildings in the line-of-site between the antenna and the satellite. When placing the dish make sure that there are no obstacles on all of the positions you wish to receive. Remember that the position furthest east will be on the right as you look at the dish from the back. So if you have Thor (1°W) and Astra (19°E) the LNB to Astra will be on the right.



STEP 2. Assembling the 45 degree Pipe

1. Once you have made sure that there are no obstacles between the dish and the satellite, as specified in step 1. 1. Use a compass for a more precise position. Fix the mast as shown in the diagram below. The foot of the pole connects with an anchor bolt. The 45 degree pipe fixes to the two pole mount legs with help of a M8*65W/SW/W hex-head screw. 2. The top of the mast should be at 90 degrees to the ground level.



- STEP 3 1. Assemble the dish bracket and dish with four M8*16 Round-flat head square screws. Then connect the dish bracket and Az/El bracket set with three M8*16 Round-flat head square screws.
2. Assemble the LNB arm (there are 4 screws with stop washers on the arm, when they are taken from the packaging), and the dish bracket with four M6 flange nuts. Then place the Multi-LNBF clamp set onto M6 flange nuts.

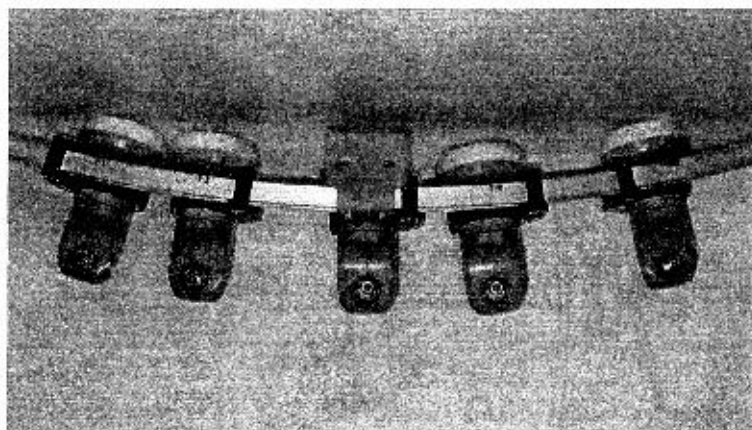
STEP 4 Tighten all of the nuts and screws, but not completely. this is a preliminary adjustment, and fine tuning will be necessary.

STEP 5 Loosen the clamps four M8 flange nuts. Then attach the antenna to the mast by sliding the clamp over the top of the mast. Loosely tighten the top two screws of the clamp.

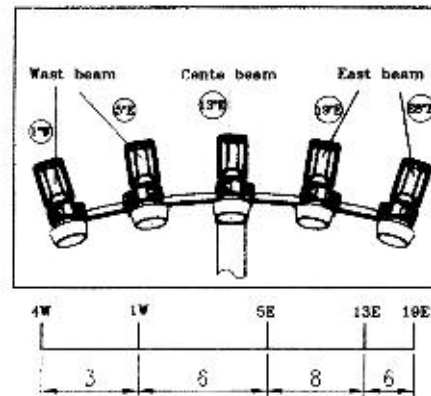
STEP 6 When you have finished steps 1 to 5. Mount the LNBFs into the LNBf clamps. Use five of the $\phi 4 \times 16L$ self-drilling screws.

STEP 7 How to mount the LNBs

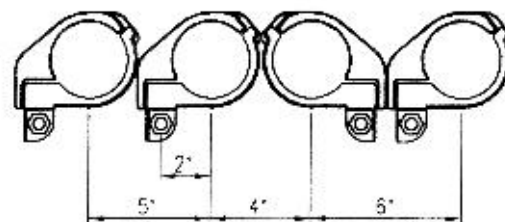
If you need have the following positions 1°West 5°East. 13°East and 19° East please use the markings on the LNB arm and the marking on the LNB holder. Please see the picture.



If you use other positions please see the picture



To obtain the best spread between the satellite positions please refer to the degrees (sketch map). Here you can see the way the LNB holder has to be set up to obtain the 4.5 and 6 degree differences in position.

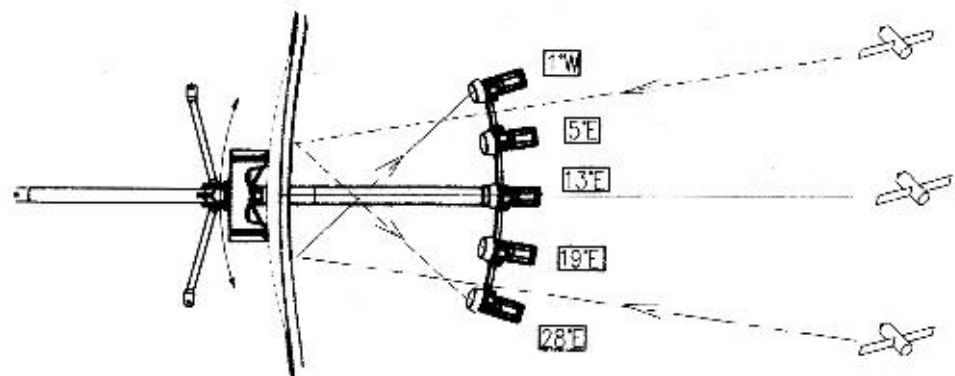


degrees(sketch map)

STEP 8 When you fine tune the one position on the antenna. The other positions will be very close to the optimal signal.

1. Alignment of the Azimuth

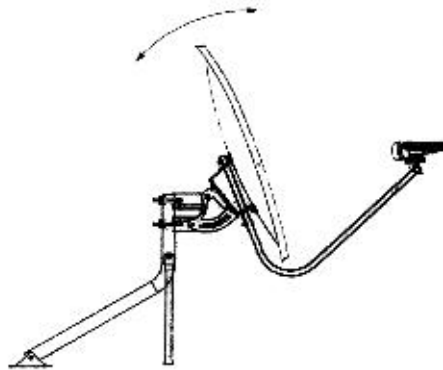
Align the satellite dish with a general south position. Slowly rotate the dish to find a signal on the signal strength meter. Then tighten the last two mast bolts.



Azimuth(horizontal side-side)

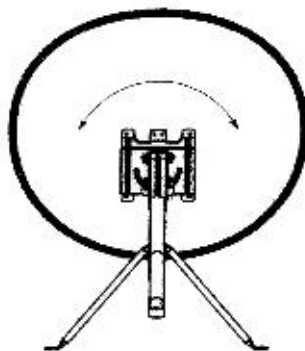
STEP 9 Fine tune the elevation.

Slightly loosen the two elevation nuts. Move the dish up and down to find the greatest signal on the signal strength meter. Find the highest peak and tighten the two elevation nuts.



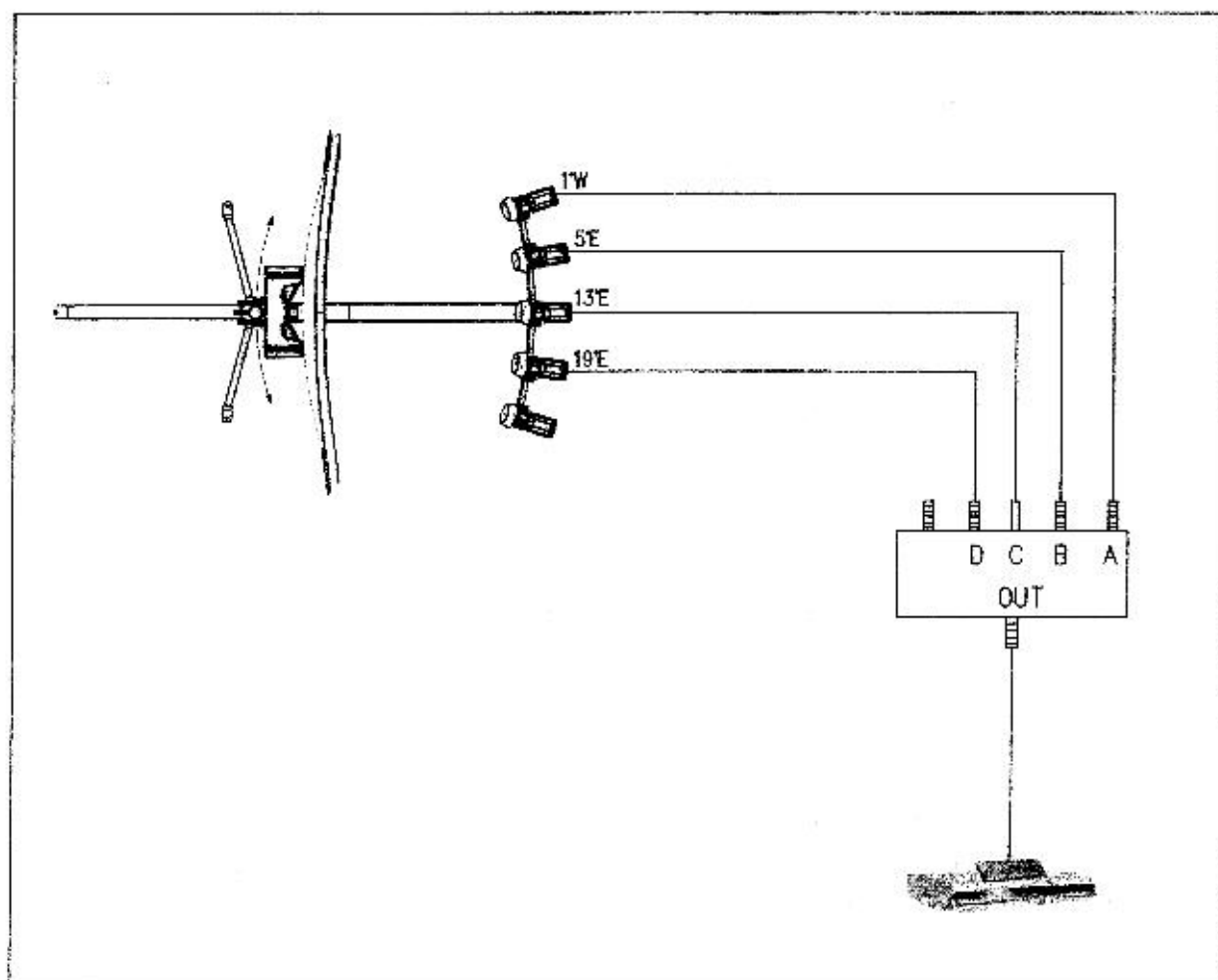
Elevation(vertical up/down)

STEP 10 Fine-tune tilt (skew) adjustment. Adjust the skew on the dish by measuring one signal then testing the opposite side of the LNB arm. If both signals have the strongest signal possible the tilt changes this is not adjusted properly. Once the optimal position has been found tighten the nuts.



Tilt(dish reflector rotation)

STEP 11 How to connect the LNB with 4 way DiSEqC Switch



If you use 1° West, 5° East, 13° East and 19° East please see picture how to connect the 4-way DiSEqC Switch.