IØJXX di Donzello Rosanna
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8x8JXX2 Cross Yagi

Item		Q.ty	Item		Q.ty
Stainless steel nut M4		12	Stainless steel bolt M4x35		8
Stainless steel nut M6		8	Stainless steel bolt M4x40		6
Nylon nut M8		14	Ergal Plate **PIA35JXX**		1
Dipole type K6STI		2	Section boom **A** 25 mm Ø	99.8 cm.	1
Lock washer 4 mm Ø		14	Section boom **A - B** 30 mm Ø	99.8 cm.	1
Lock washer 6 mm Ø		8	Section boom **B - C** 35 mm Ø	99.8 cm	1
Flat washer 6 mm Ø		8	Section boom **C - D** 30 mm Ø	99.8 cm.	1
Horizontal element **1 ÷ 8**		7	Section boom **D** 25 mm Ø	110 cm.	1
Vertical element **A ÷ H**		7	Allen key 3 mm		1

Total Field   EZNEC+   Total Field   EZNEC+
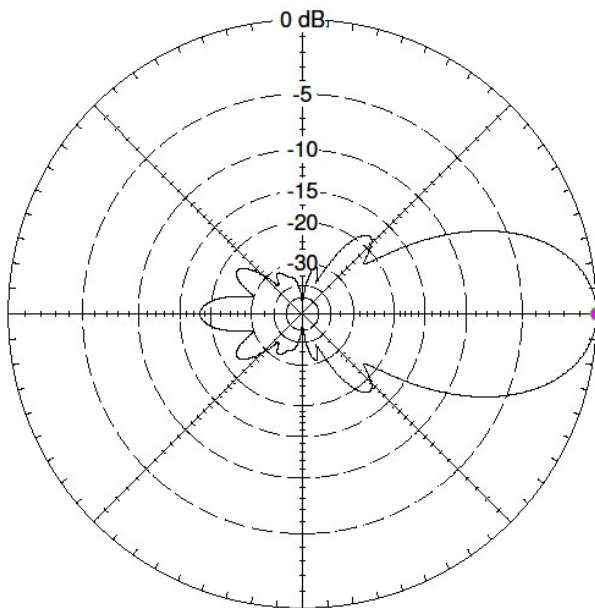
Dipole in free space   144,4 MHz   Dipole in free space   144,4 MHz

Azimuth Plot		Cursor Az 0,0 deg.
Elevation Angle	0,0 deg.	Gain 14,28 dBi
Outer Ring	14,28 dBi	0,0 dBmax
		0,0 dBmax3D
3D Max Gain	14,28 dBi	
Slice Max Gain	14,28 dBi @ Az Angle = 0,0 deg.	
Front/Back	18,13 dB	
Beamwidth	34,8 deg.; -3dB @ 342,6, 17,4 deg.	
Sidelobe Gain	-3,79 dBi @ Az Angle = 49,0 deg.	
Front/Sidelobe	18,07 dB	
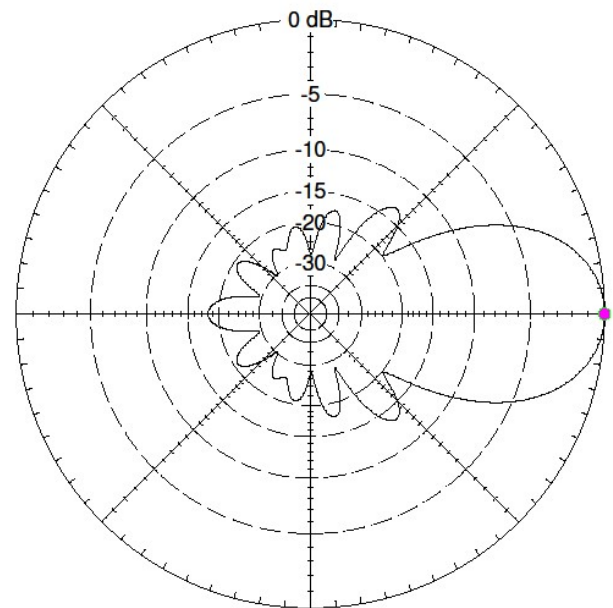
Elevation Plot		Cursor Elev 0,0 deg.
Azimuth Angle	0,0 deg.	Gain 14,28 dBi
Outer Ring	14,28 dBi	0,0 dBmax
		0,0 dBmax3D
3D Max Gain	14,28 dBi	
Slice Max Gain	14,28 dBi @ Elev Angle = 0,0 deg.	
Front/Back	18,13 dB	
Beamwidth	38,2 deg.; -3dB @ 340,9, 19,1 deg.	
Sidelobe Gain	1,01 dBi @ Elev Angle = 51,0 deg.	
Front/Sidelobe	13,27 dB	

A

B

C

D

1

2

3

E

4

F

H

5

6

8

M4 x 35

M4 x 35

A

A

M4 x 40

D

D

M4 x 40

C

C

NO

NO

NO

NO

Number

M4 x 35

⑥

⑧

M4 x 35

⑥

Letter

Ⓐ

FRONT

Ⓑ

②

Ⓐ

①

M4 x 35

Ⓗ

Ⓕ

⑥

BACK

⑧

Lock washer

M6 Nut

Flat washer
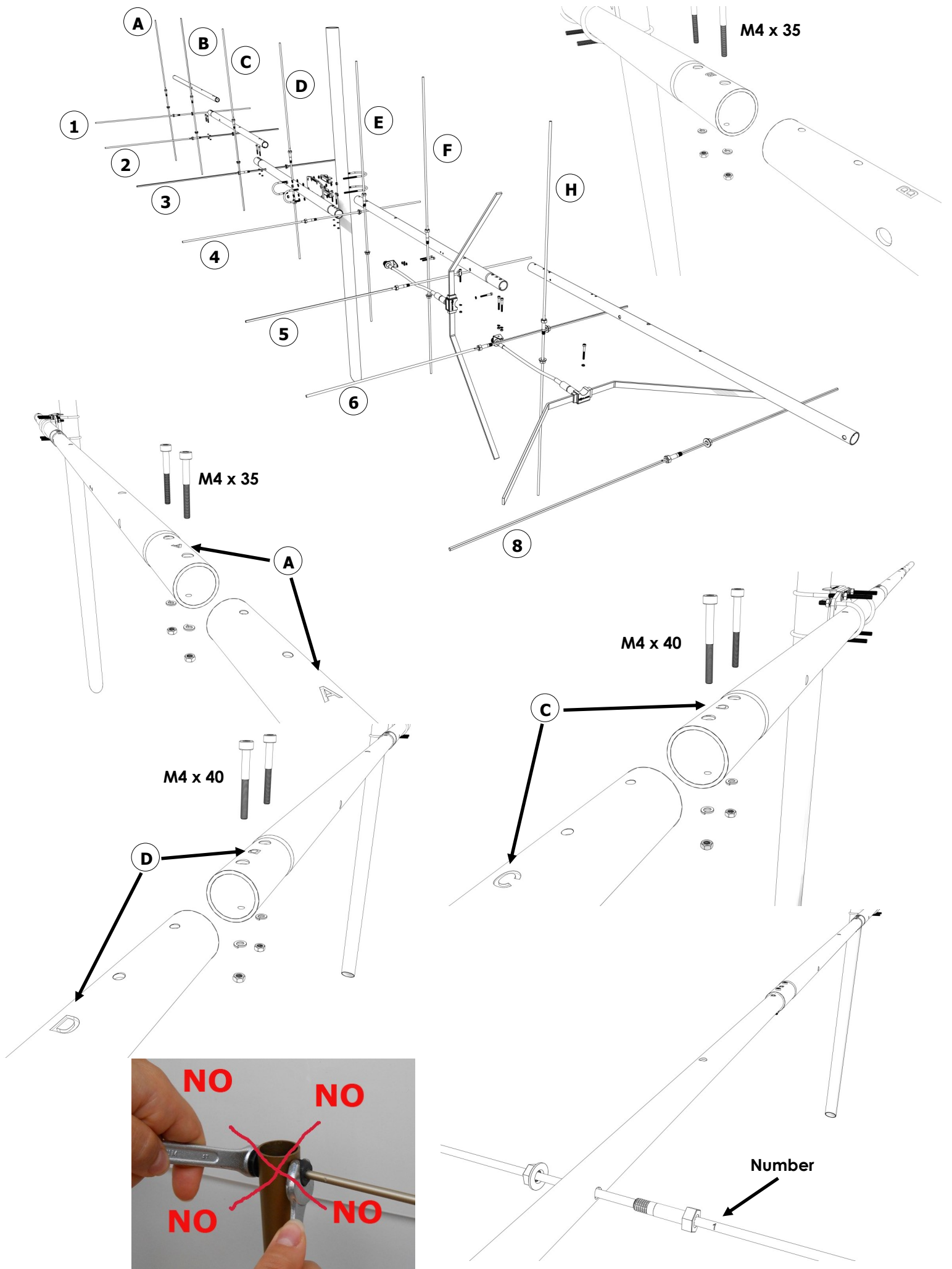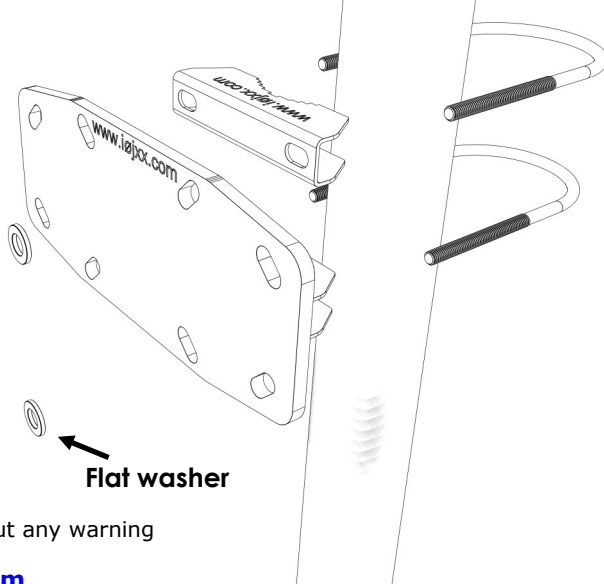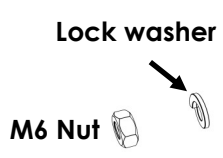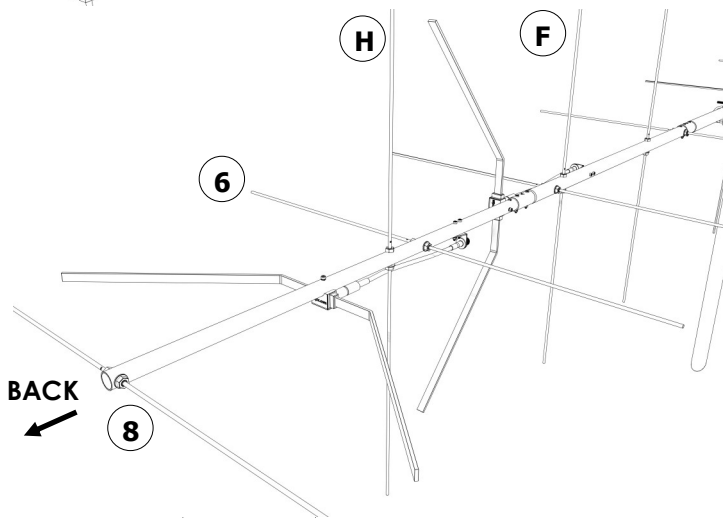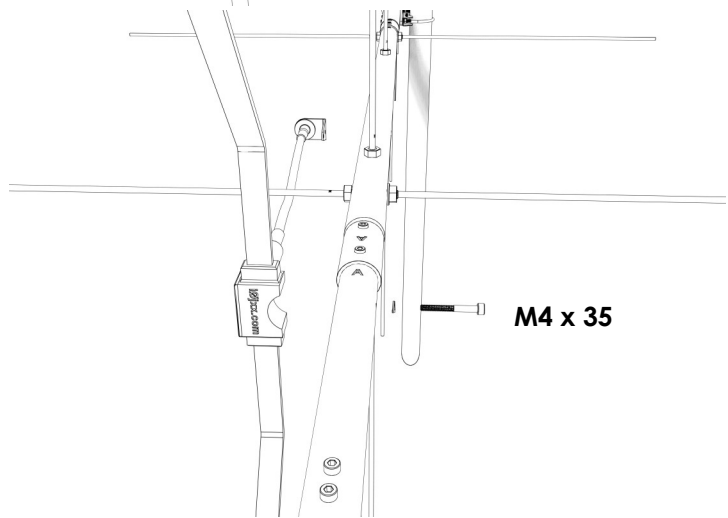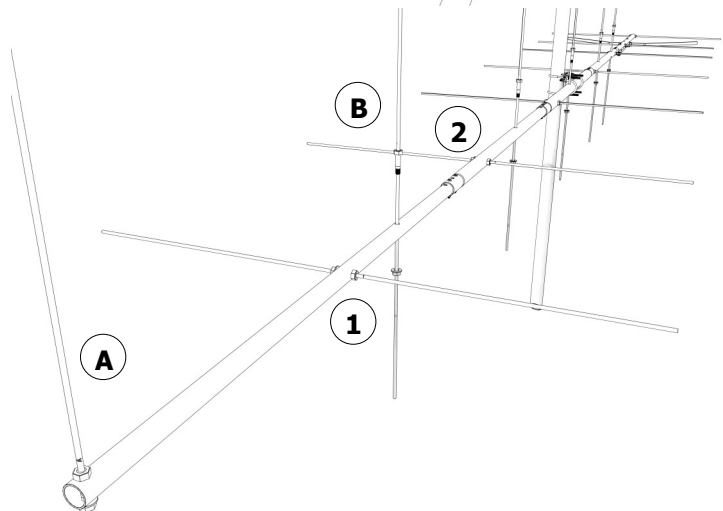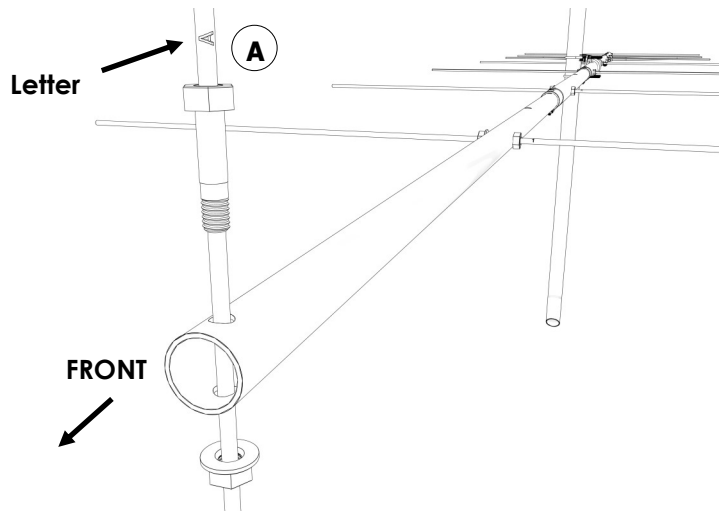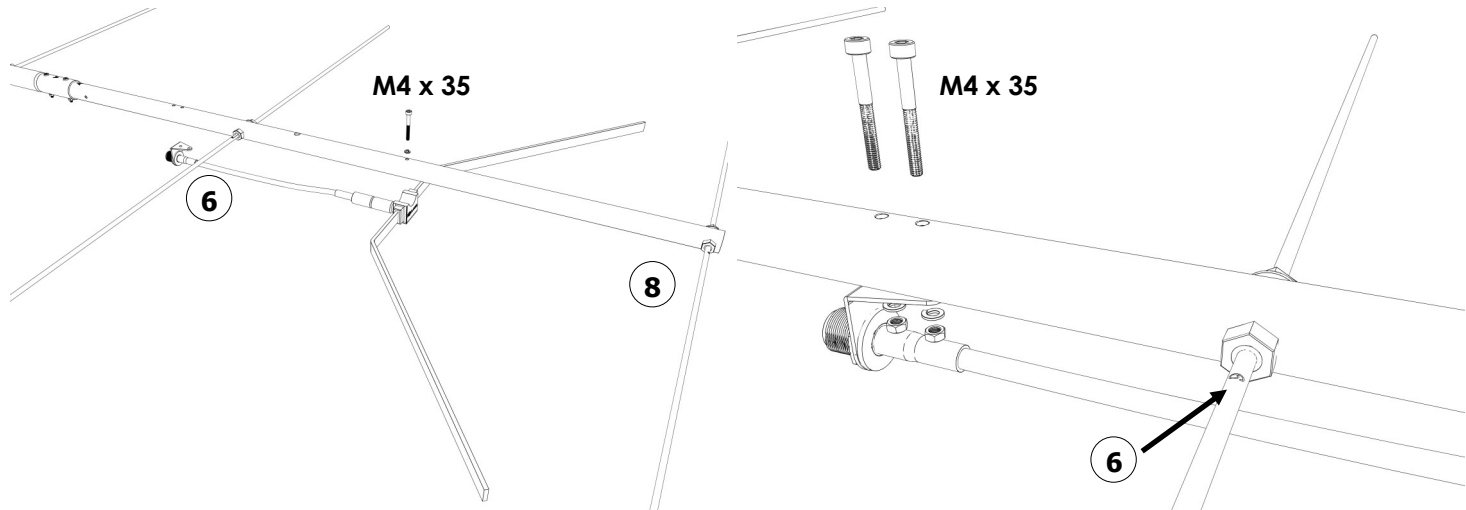
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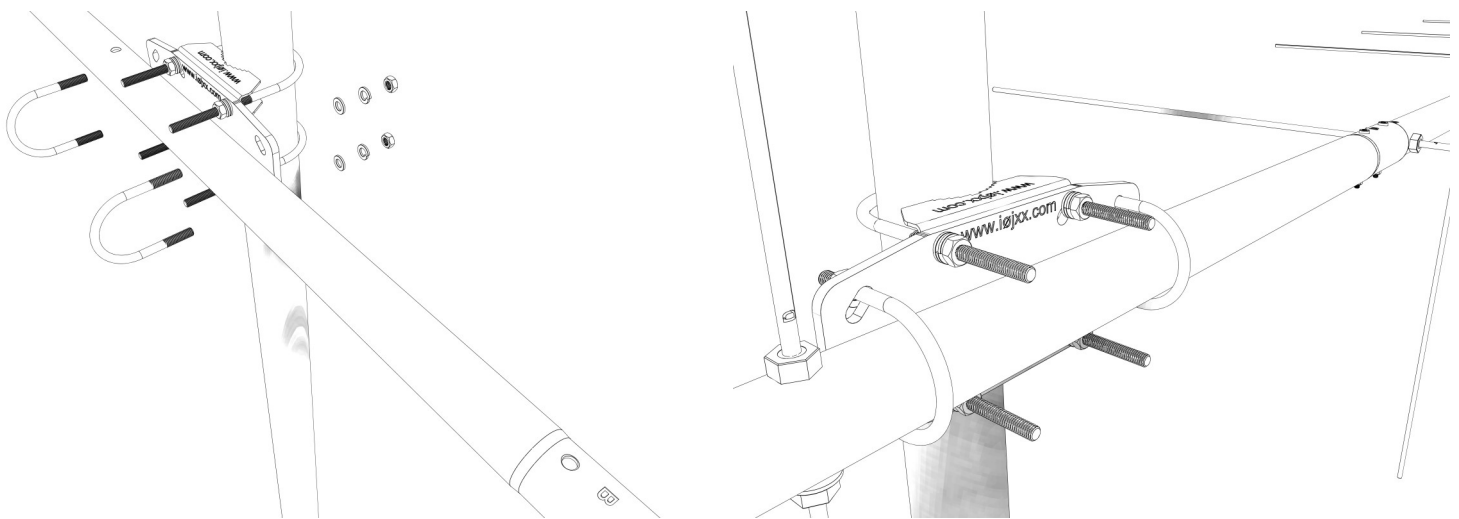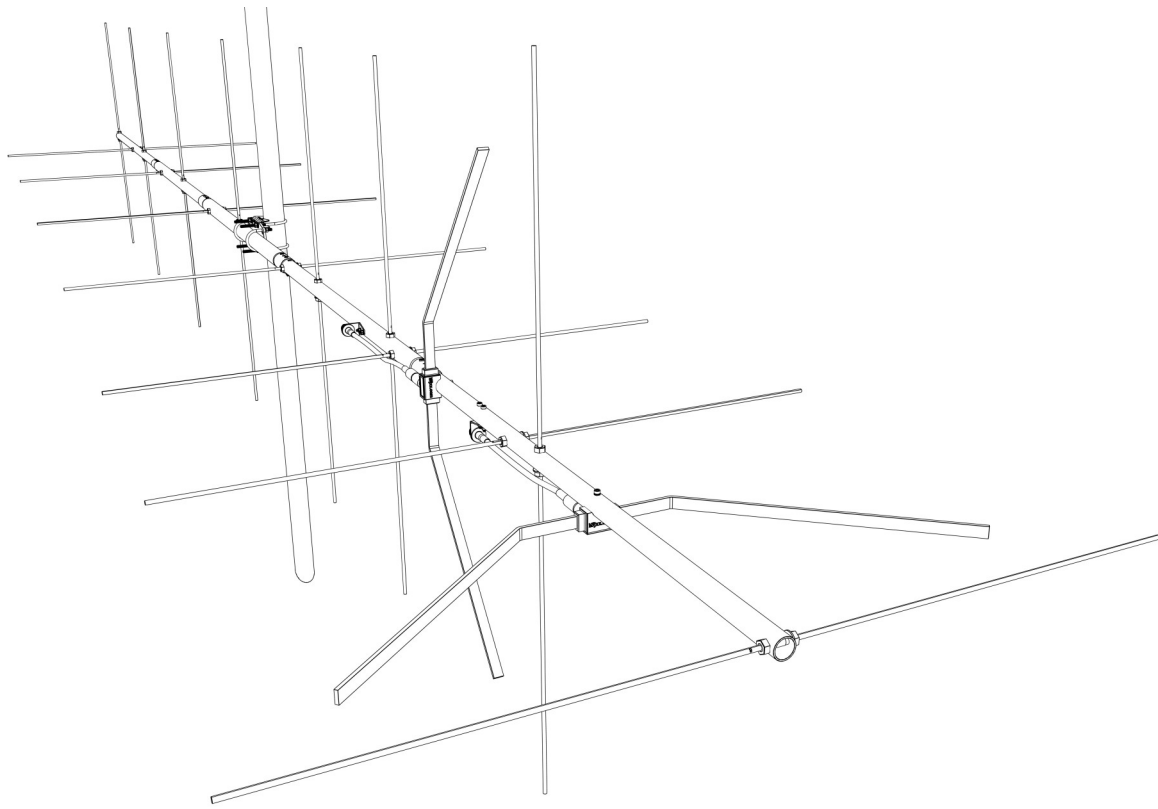
Stacking

In order to obtain the best results in coupling the antennas, we warmly recommend an adequate antenna stacking calculation which would allow the best forward gain together with low side lobes. The stacking distance may be calculated with the following formula from Güenter Hoch DL6WU

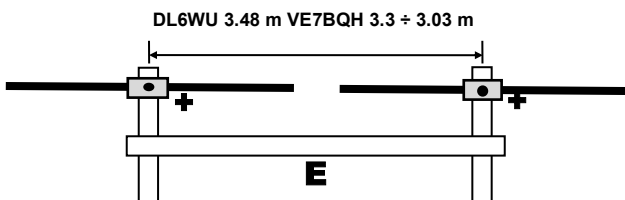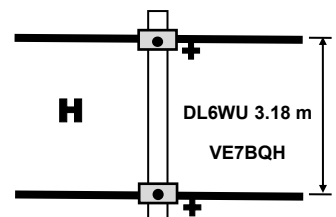On the basis of further studies conducted by Lionel VE7BQH over the antenna stacking argument, a reduction of 5÷10% may be introduced on stacking distances without noticing significant overall worsening of the characteristics. Do respect the driven element supplying symmetry to allow anti-phase coupling

$$\textbf{Plane E} = 34.8° = \frac{2079}{2 * \sin(34.8/2)} = \frac{2079}{0.598} \cong \textbf{3.48 m} \text{ (with VE7BQH from } \textbf{3.3 m} \text{ to } \textbf{3.13 m)}$$

$$\textbf{Plane H} = 38.2° = \frac{2079}{2 * \sin(38.2/2)} = \frac{2079}{0.6544} \cong \textbf{3.18 m} \text{ (with VE7BQH from } \textbf{3.02 m} \text{ to } \textbf{2.86 m)}$$

DL6WU 3.48 m VE7BQH 3.3 ÷ 3.03 m

$$d = \frac{L}{2 * \sin(\Phi/2)}$$

E

H

DL6WU 3.18 m

VE7BQH

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