



# ZX 4-6

## 70 MHz 3-Element Beam



### Assembly

**Deutsche Anleitung:  
bitte wenden!**

- Locate all parts according to the parts list and **table 1**. Insert plastic end caps into the ends of the elements.
- Assemble boom (3 parts) with lock washer and screws M5\*10.
- Mark the location of the elements (**dimension X and Y**) on the boom with a felt tip pen according to **table 1**. Distance from the end of the tube is around 50mm. Mark the center of the inner element tubes (22mm dia.) with your felt tip pen.
- Mount the element plates to the elements: 28mm U-bolts, mounting blocks, 8mm washer and nut. Make sure the elements are centered with the element plates.  
Mount the element plates to the boom with 50mm U-bolts, mounting blocks, 8mm washer and nut. The elements should be **on top** of the boom. Make sure the elements are not confused.
- Gamma match assembly: mount the alu hinge to element plate: remove ONE nut of the mounting plate of the driven element, attach the hinge and re-install the nut. Attach gamma match to N jack, order of parts: screw M5\*30 / jack / lockwasher / gamma match / lockwasher / nut 5mm. See picture on last page.  
Note that the inner tube of the gamma match must go inside the gamma slider already installed on the driven element and that the inner tube of the gamma match is fully inserted in the outer tube.
- Secure the gamma slider at the correct position (dimension Z) with screws M4x16. Use a nut and a washer to fix the screw.
- Assemble the mast plate (same as element plate) and mount to boom: lift the antenna in order to check the correct place for the mast plate. The mast plate should be installed so the antenna is balanced. When mounting the antenna as fore mast antenna, the antenna tip should be hold with a support wire feed around the boom.

You got it! Wishing you lot of DX with your new ZX-yagi!

### Adjustment

the lengths given below are measured with a test antenna. Different settings may depend on the local installation.

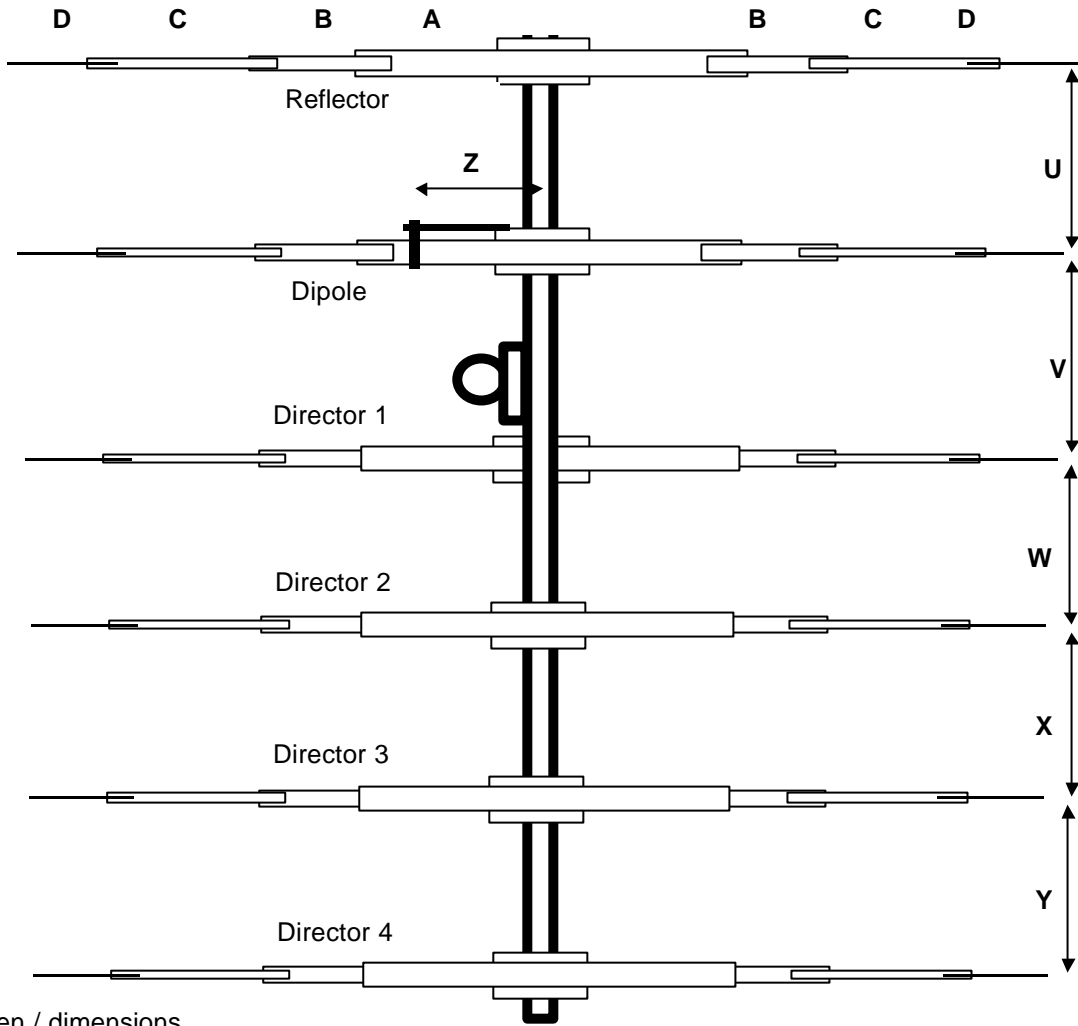
Adjustment for best SWR is to be done by moving the slider first. Set the slider to have the resonance dip where wanted, then adjust the inner tube of the Gamma match for best SWR.

### Parts List

Boom 50 mm Ø, 3 pcs	1	mounting block 50mm	16
Elements according to Table 1	6	mounting block 28mm	12
slider for gamma-match	1	nut M4	2
Gamma-Match assembled	1	nut M5	2
Mounting hinge with N-jack	1	nut M8	56
Element plates 150 * 80 mm	3	washer 5mm	1
Mast plate 150 * 100 mm	1	lock washer 8mm	56
U-Bolt 50mm	16	lock washer 4mm	2
U-Bolt 28mm	12	lock washer 5mm	2
plastic caps	6	screw M4x16	2
		screw M5x30	1

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6-Element Beam



Abmessungen / dimensions

Abstand Spacing (mm)	Elementlänge gesamt total ele length	Mittelrohr center tube (A): mm	1. Verl. 1. ext. (B): mm	2. Verl. 2. ext. (C): mm	3. Verl. 3. ext. (D): mm	4. Verl. 4. ext. (E): mm
Reflektor U: 857	2107					
Dipol V: 725	1973					
Direktor1 W: 1106	1899					
Direktor2 X: 1142	1874					
Direktor3 Y: 1317	1882					
Direktor4	1802					
Rohrdurchmesser tube diameter (mm)		25x2				

Abstand des Schiebers der Gamma-Match zur Boom-Mitte (Z):

Distance of gamma slider to boom center (Z): 256mm

Einbau der Gamma-Match - Reihenfolge der Teile:

Gamma match assembly: order of parts:

Schraube M5\*30 / Buchse / 5mm -Scheibe / Zahnscheibe / Gamma-Match / Zahnscheibe / Mutter M5  
 screw M5\*30 / jack / washer / lockwasher / gamma match / lockwasher / nut  
 5mm

