

ALP8

Antenna Log Periodic

10-11-12-15-17-20 Meters



ASSEMBLY/INSTALLATION



Thank you for purchasing our products. Be sure to read the manual, it is important to know the product better to get the most out of it.

THE ANTENNA PARTS

- Aluminum tubes are identified with numbers.
- The insulators are made of fiber glass.
- The boom has 3 parts.
- The larger “u” clamps are the supports for the elements.
- Take a good look at all the components and familiarize yourself with them.
- The elements are marked by numbers and in order, for example, the first element is the number 1, the central part that fixes the element on the boom receives the number 1, the next segment of this element on the right side is the number 1.1, after 1.2 and so on and equal on the left side.

REQUIRED TOOLS

- Assembly

Few tools required for assembly are these:

- Tool 10/11 and 12/13 and phillips
- 5 m tape measure

- Connection

Coaxial cable connection is with UHF type connector directly on the balun. Use self-fusion tape to protect the connector and cable from rainwater.

CHOOSING THE BEST LOCATION

- The installation location is very important.
- Make a plan of all the action you will take to install the antenna, if necessary ask for help from professionals.
- Choose the location looking for the greatest distance from trees, metal structures, power lines, other antennas, stretches, people, etc. The proximity of these elements can reduce efficiency and make installation difficult.

IMPORTANT

- Don't forget the security procedures.

ASSEMBLY

Assemble the ALP8 following the instructions as per the diagrams and illustrations, assemble the boom first, then the elements, place the elements on the boom, make the alignment, connect the balun and the coaxial and finally attach to the mast.

ADJUSTMENTS

- ALP8 does not normally require adjustment after assembly. If you want to verify the VSWR before installation, please observe the following procedures. Temporarily mount the antenna with the boom vertically, element 1 at least 40cm off the ground on a non-metallic support (wooden box) to avoid antenna detuning. Support the top of the boom with a non-conductive line. Do not try to measure the VSWR close to the ground, with the boom parallel to the ground, this will nullify any results. Connect a coaxial cable between the radio and the antenna, the length of this cable is not critical, use a good meter, which is reliable. Stay away from the antenna during measurements as your body may cause an erroneous reading. A SWR of 2:1 or less is satisfactory and will not decrease efficiency if greater than 2:1 do a general check on measurements, element positions and connections.

ATTENTION: While it is possible to adjust the lengths of an element to improve VSWR in a single band, this will degrade gain and front/back ratio in other bands and IS NOT recommended.

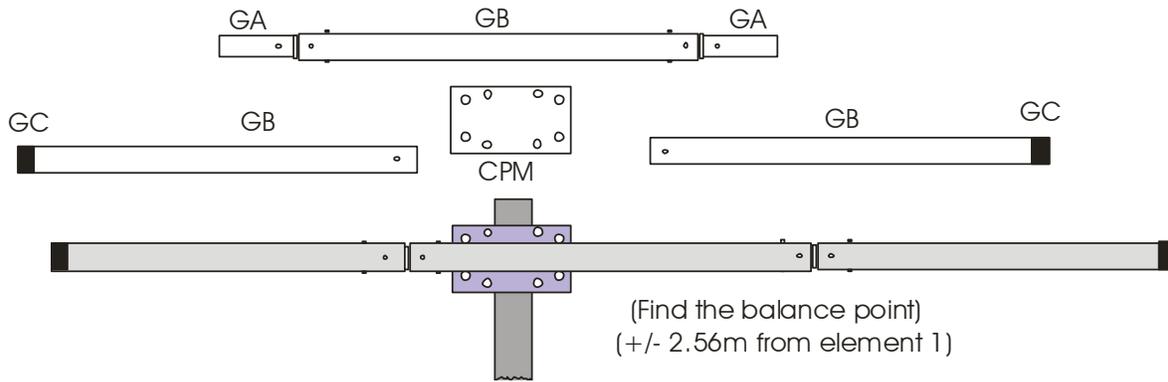
LIST OF COMPONENTS AND PARTS BY SECTION

BOOM

ITEM	DESCRIPTION	AMOUNT
GA	ALUMINUM UNION	02
GB	BOOM 2"	03
GC	RUBBER CAPS	02

BOOM ASSEMBLY

-Fit the three tubes using the splices, secure the mast fixing plate and after final assembly look for the balance point which is close to 2.56m from element number 1.



PLATE

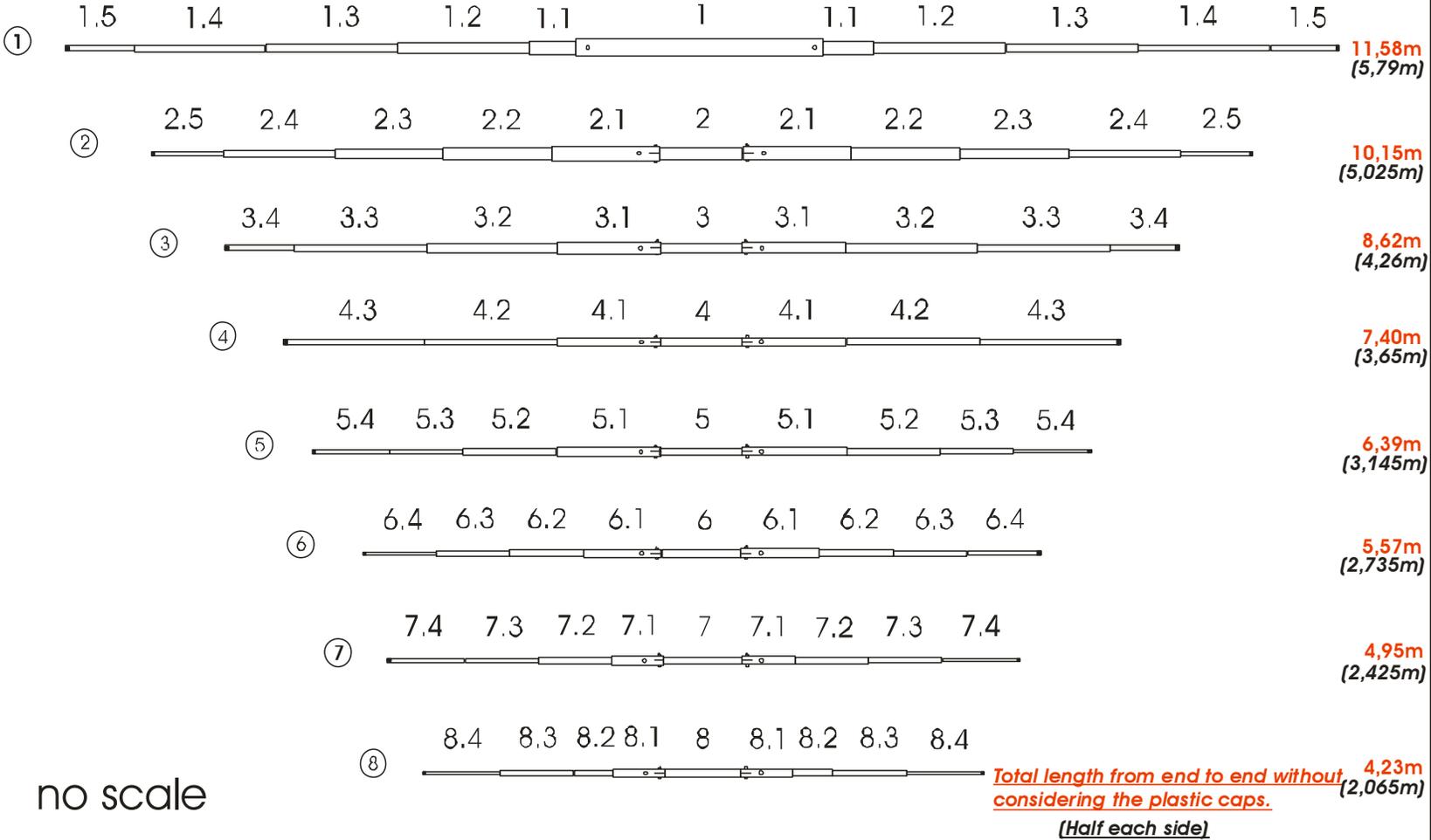
ITEM	DESCRIPTION	AMOUNT
CPM	ALUMINUM PLATE	01
GU	"U" CLAMP (SET)	04

ASSEMBLY THE ANTENNA

- Separate the items for each element.
- The Elements must be assembled and positioned according to the next figures.

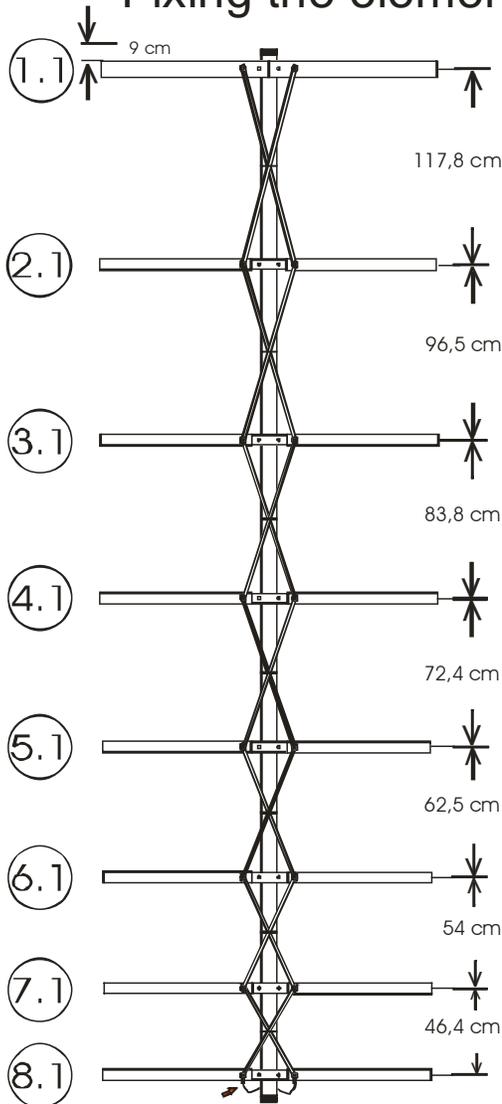
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Assembly and lengths

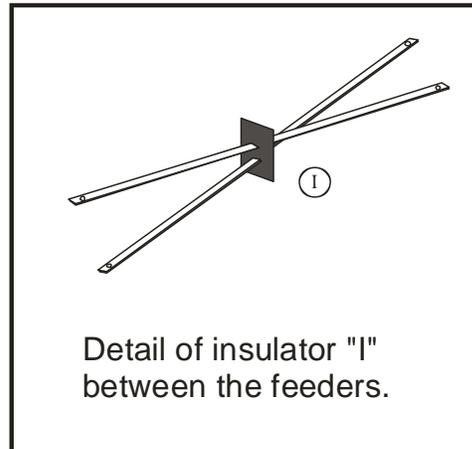


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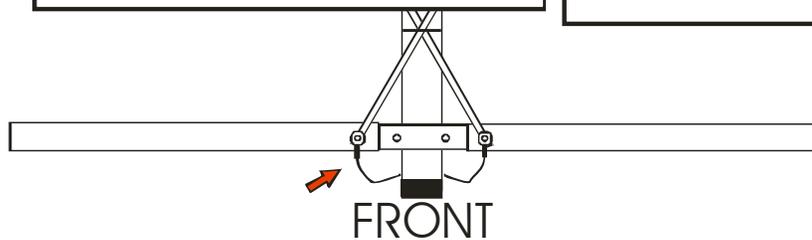
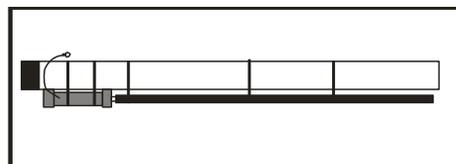
Fixing the elements and feeders



Assemble the first segments of each element conforming the figure on the side, leave it for tighten the screws after assemble all the elements and make de alignment



Attach the Balun to the part of under the gondola and turn on the terminals as shown in the figure.



ATTENTION: DO NOT USE POWER STILL GREATER THAN 700W RISK OF IRREVERSIBLE DAMAGE TO THE BALUN.

If you want to disassemble the antenna, mark the elements again according to the manual, to facilitate the reassembly.

SPECIFICATIONS

MODEL	ALP8
FREQUENCY MHZ	13,5-30
ELEMENTS	8
FORWARD GAIN	6,4 dBd (8,55dBi)
F/B RATIO	15-20 dB
POWER RATING	2.000 W PEP
BOOM DIAMETER	2" (50mm)
BOOM LENGTH.	5,50m
> ELEMENT	11,58m
TURNING RADIUS	5,86m
MAST	1.¼" A 2"
WIND LOAD	0,93 m ²
WEIGHT	24 Kg

The contents of this manual are subject to change without notice.

WARRANTY TERM

DIEX products are guaranteed for One year against manufacturing defects, DIEX may repair or replace parts or all of the product at its own discretion within the warranty period.

Damage caused by lightning, falling, forces of nature, misuse, installation by an unqualified person, ie, improper, negligent or incorrect assembly is not covered by the warranty.

Products that undergo any adaptation or alteration or repairs by unauthorized service automatically void the warranty.



Manual ALP8 Versão f.e.

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