



# ANTENNA EXPERTS

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LP-170-860

170 - 860 MHz.

9 dBi. Gain

## LOG PERIODIC ANTENNA – INSTALLATION MANUAL

### NOTICE:

Installation, maintenance or dismantling of the antenna system requires qualified and experienced personnel. Antenna Experts antenna Installation instructions have been prepared and are meant for skilled personnel only.

Antenna Experts disclaims any liability or responsibility as a result of improper or unsafe installation practices.

### MATERIALS:

Following materials are used for the fabrication of Antennas and its accessories.

- |                              |  |
|------------------------------|--|
| 1. Square Boom and Elements: | 6063T6 Aluminum with silver powder coating     |
| 2. Mounting Hardware:        | All Stainless Steel.                           |
| 3. Fasteners:                | All Stainless Steel.                           |
| 4. Connector:                | Silver Plated Brass body with Gold plated pin. |
| 5. Insulators:               | TEFLON.  |
| 6. Separators:               | NYLON  |

### PACKING LIST:

<u>Sl. No.</u>	<u>Item/Description</u>	<u>Quantity</u>
1.	Dual Boom Square Section with 2 Nos. of mounting brackets fitted at back end of the dual booms.	1 Each
2.	Radiating Elements (sets of dual elements)	12 Set.
3.	Installation Instruction.	1 Each.
4.	Test Report.	1 Each.

### INSTALLATION INSTRUCTIONS:

1. Unpack the Log Periodic Dipole Antenna from the packing box.
2. On visual inspection of the dual boom and each element, the marked position of each element with corresponding positions on the dual boom can be seen.
3. Assemble the antenna as per marking i.e. 1A, 1B, to 12A, 12B are marked on the dual boom and elements. The position of each element should match their respective mark on the dual boom. **Pay attention to the alternating top-bottom positioning of the elements.**
4. Mounting plate is welded at the back end of the dual boom. Two “U” type bolts are fitted in the mounting plate. Initially these TWO “U” bolts are supplied for Vertical Polarization.
5. To change the polarization from Vertical to Horizontal rotate the “U” bolts 90 degrees and fixes them in another set of holes which are provided in the mounting plate.
6. Install the antenna on 30mm to 52mm (1.25 Inches to 2 Inches) outer diameter round pipe by using two “U” type bolts of mounting bracket.
7. Connect the N-Male connector of feeder cable to the N-Female termination of antenna. Seal the connector against moisture ingress with a sealing tape.
8. When the installation of the antenna has been completed, it is necessary to ensure that the installation instructions have been followed in all aspects.
9. It is especially important to recheck that the all nuts/bolts are tightly **locked**.
10. Take VSWR reading by using a through-line RF Power meter. The VSWR should never exceed 1:2.5. Keeps the record of VSWR for future reference.
11. Carefully align the antenna in desired direction to obtain maximum signal strength and tighten both “U” bolts.