

# Directive Systems & Engineering

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## 33cm Loop Yagi, Model DSE3333LY

### SPECIFICATIONS

Frequency range:	890-910 MHz	Gain:	18.5 dBi
Number of elements:	33	3 dB Beamwidth (E plane):	20°
Boom length:	144 inches	F/B ratio:	≥20 dB
Boom diameter:	1 inch	Maximum Power:	550 W average
Mast diameter:	2 inches max	Stacking distance:	30 inches' vertical 33 inches' horizontal
Weight: (assembled)	5 pounds		
Connector:	Type-N female		

*Note: All hardware is Stainless Steel unless otherwise noted.*

**Anti-Seize Compound** - Apply a small amount of the supplied Anti-Seize Compound to the aluminum joints and to the threads of the U-Bolts to prevent galling.

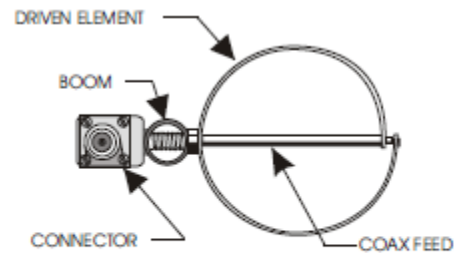
**BEFORE INSTALLING YOUR NEW ANTENNA, PLEASE BE SURE  
TO READ THE ENCLOSED WARNING PAMPHLET.**

### ASSEMBLY INSTRUCTIONS

- 1) Unpack antenna and locate the two preassembled antenna sections and the hardware package. The boom is broken between elements D16 and D17. Remove D16 from the boom piece and slide boom pieces together to alignment marks. Replace D16 and retighten. The booms are marked for your assembly.
- 2) Straighten any misaligned elements and tighten hardware if necessary. **But do not touch R1, DE or D1, as these have been factory set for minimum SWR.**
- 3) Attach the boom to mast plate to the boom with the hardware provided. Install the U-bolts so that the mast comes up directly under the boom.



**HORIZONTAL  
POLARIZATION**  
(Can be up or down)



**VERTICAL  
POLARIZATION**  
(Can be left or right)

- 4) Attach the feed line, and tape it to the bottom of the boom. The connector should be sealed with electronic grade RTV or equivalent.
- 5) The antenna SWR has been adjusted at the factory for less than 1.5:1. Additional tweaking can be accomplished by adjusting the distance between the driven element and R1 and D1, or by adjusting the shape of the driven element. **NOTE: Do not attempt this adjustment unless the proper equipment and qualified personnel are available.**
- 6) If antennas are to be stacked, see "Instructions for Stacking Loop Yagis".

**DO NOT, UNDER ANY CIRCUMSTANCES, APPLY ANY TYPE OF SEALANT OR COATING TO THE DRIVEN ELEMENT, T-ARMS OR CONNECTOR ASSEMBLY, OTHER THAN KRYLON® CLEAR COAT. ANY OTHER COATING WILL ADVERSELY AFFECT THE SWR AND VOID YOUR WARRANTY.**

### **Directive Systems Warranty Policy**

All Directive Systems antennas are built with the finest materials available. We take great pride in building a quality product that will give years of good service and performance. If there is a defect in materials or workmanship within 90 days of purchase, Directive Systems will repair or replace the defective part, free of charge, to the original purchaser. **DO NOT RETURN ANYTHING WITHOUT PRIOR AUTHORIZATION FROM DIRECTIVE SYSTEMS.** Please contact us either by phone or email describing the problem and we will work to resolve it.

If, after examining a new antenna you received, you are not satisfied, contact us immediately for return authorization and refund. **ANY ANTENNA THAT HAS BEEN MODIFIED WILL BE SUBJECT TO A RESTOCKING CHARGE. IF AN ANTENNA IS SO MODIFIED AS TO MAKE IT UNUSABLE, DIRECTIVE SYSTEMS RESERVES THE RIGHT TO REFUSE TO ACCEPT THE ANTENNA FOR RETURN.**