Directive Systems & Engineering

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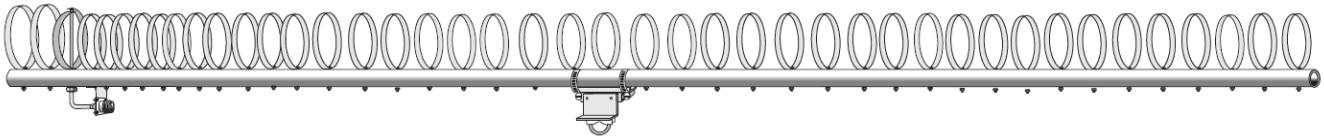
1537 MHz (INMARSAT) Loop Yagi, Model DSE2045LY



SPECIFICATIONS

Frequency Range:	1.52-1.56 GHz
Number of elements:	45
Boom Length:	120 inches
Boom diameter:	.75 inch
Mast diameter:	1 1/2 inch maximum
Weight:	3 pounds
Connector:	Type N female
Gain:	≅20.0 dBi
3 dB Beamwidth (E Plane):	=16°
F/B Ratio:	>20 dB
Maximum Power:	400 W. average
Stacking distance:	22 inches Vertical 24 inches Horizontal

ASSEMBLY INSTRUCTIONS

1) Unpack antenna and locate the hardware package. Antennas are shipped in three sections, in which case the booms connect between directors 18 & 19, and 29 & 30. Remove D 17 and D 18 from the rear boom section and slide the two pieces together. Align the elements; replace D 17 and D 18 and retighten. Proceed likewise with D27 & 28.

2) Attach the boom-to-mast "L" bracket to the swivel bracket with the hardware provided. Attach the antenna to the mast with the U-bolt and saddle. (See diagram on opposite side.)

3) Attach the feed line and tape it to the bottom of the boom. The connector should be sealed with electronic grade RTV or equivalent. Don't forget to seal the area where the .141" semi rigid coaxial cable extends into the rear of the antenna connector.

4) Straighten any mis aligned elements and tighten hardware if necessary.

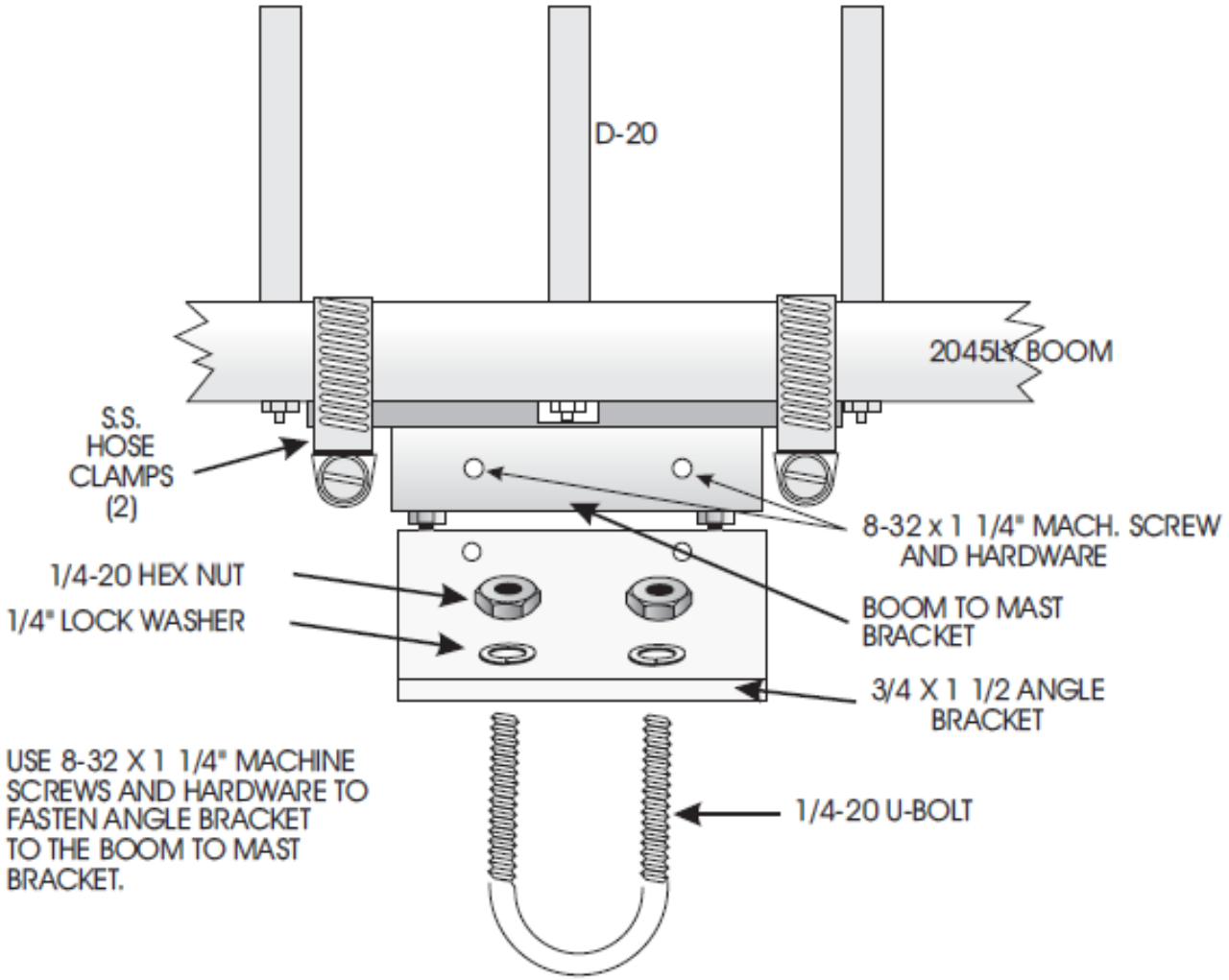
5) The antenna SWR has been adjusted for less than 1.2:1 at the factory. Additional tweaking can be accomplished by adjusting the distance between the driven element and R1 and D1, or by slightly adjusting the shape of the driven element.

6) If antennas are to be stacked, see "Instructions for Stacking Loop Yagis"

DSE2045LY Mounting

The 2045LY loop yagi (1537 MHz INMARSAT) is fitted with a special adjustable polarization mount so that your antenna polarization can be adjusted for best results. The mounting center for the antenna is at DIRECTOR 20. The 2045LY is provided with two stainless steel hose clamps that hold the boom to the Boom to Mast Bracket. The boom fits into a saddle on the bracket and by loosening the clamps, the boom can be rotated nearly 90 degrees clockwise or counter clockwise. In this manner, the polarization of the antenna can be set to match that of the incoming signal for maximum gain. When max gain has been realized, tighten the two hose clamps to prevent further movement.

The mounting bracket allows elevation control when mounted on a horizontal support mast of up to 1 1/2 inches in diameter. See diagram below.



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, free of charge, the defective part. **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.**