DIRECTIVE SYSTEMS
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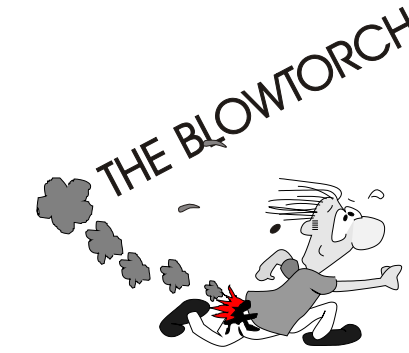
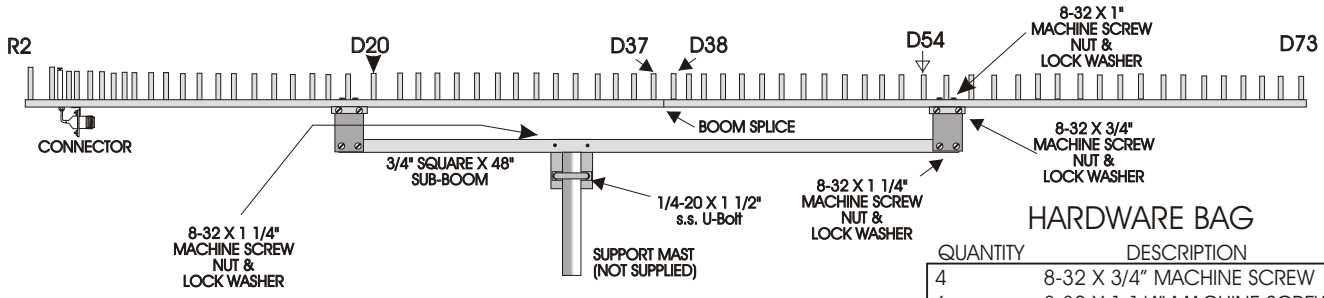
3456 MHz Loop Yagi Model 976LY



SPECIFICATIONS

Frequency range:	3.4 to 3.5 GHz
Number of elements:	76
Boom length:	96 inches
Boom diameter:	0.5 inch & 0.75 inch sub-boom
Mast diameter:	1 1/2inch maximum
Weight:	3.5 pounds
Wind area:	0.65 sq.ft.
Connector:	Type-N female
Gain:	≅ 23.0 dBi
3 dB Beamwidth (E plane):	≅ 11.6 degrees
F/B ratio:	>25 dB
Maximum Power:	200 watts average
Stacking distance:	16 5/16 inches vertical (H)
	17 inches horizontal (E)



HARDWARE BAG

QUANTITY	DESCRIPTION
4	8-32 X 3/4" MACHINE SCREW
6	8-32 X 1 1/4" MACHINE SCREW
10	8-32 HEX NUT
10	#8 SPLIT LOCKWASHER

ASSEMBLY INSTRUCTIONS

1. Unpack the antenna and locate the hardware package. Antennas are shipped in two sections. In addition, a 48" long "sub-boom" is supplied.(See drawing above.) The boom is broken between directors 37 & 38. Remove D38, D39 and D40 from the front boom section and slide the two boom pieces together.Use the alignment marks on the boom to correctly connect the boom pieces. Align the elements. Replace D38 39 & D40 Note that D38-40 are all similar in size. Tighten the elements on the boom.

2) Attach the two 3 x 4" sub boom plates to the angle brackets on the1/2" boom with the 8-32 x 3/4" hardware and lock washers provided. Install the sub boom to the two plates with the two mast plate mounting holes offset towards the rear (for mechanical balance). Use the 8-32 x 1 1/4" machine screws Install the mounting plate with the remaining 8-32 x 1 1/4" screws. Install the 1 1/2" U-bolt in the holes provided.

3) Attach the feedline and tape it to the bottom of the boom & sub-boom. The connector should be sealed with silicone RTV or equivalent. On quad arrays it is possible to install the power divider near the driven elements suspended from the short semi rigid phasing lines and the hardline feeder.

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

5) The antenna SWR has been adjusted at the factory for less than 1.5:1 VSWR. Additional tweaking can be accomplished by changing the shape of the driven element slightly and by adjusting the distance between the driven element andR1 and D1. R1 is the reflector closest to the driven element. If you do not have a microwave return loss bridge or coupler, leave it alone!