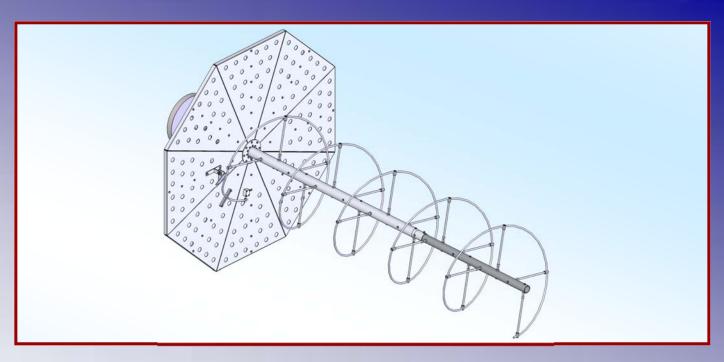


M2 Antenna Systems, Inc. Model No: 125-175-5



SPECIFICATIONS:

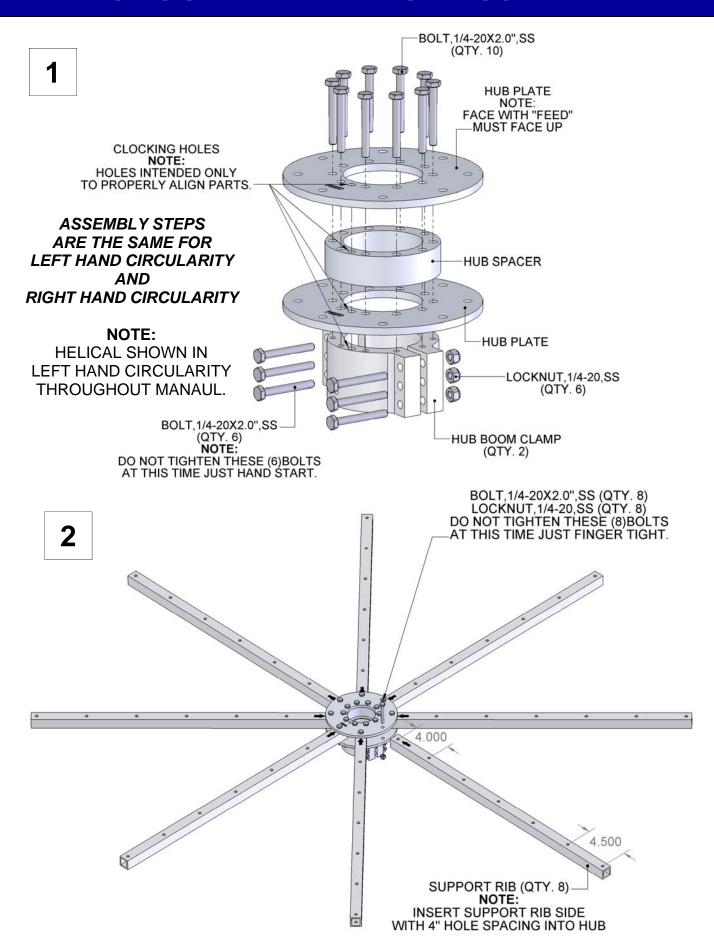
Model	125-175-5
Frequency Range	125 To 175 mHz
*Gain	
Beamwidth	150 mHz = 70°
Impedance	50 Ohms Unbalanced
VSWR	
Polarity	
-	(Customer Specified)

Elipticity	<3db
Connector	Type "N" Female
Power Handling	1 kW, Higher avl.
Boom Length / Dia	122.5" / 2" to 2.5"
Turning Radius:	106"
Mast Size	1.5" Nom.
Wind Survival	100 MPH
Weight / Ship Wt	100 Lbs. / 400 Lbs.

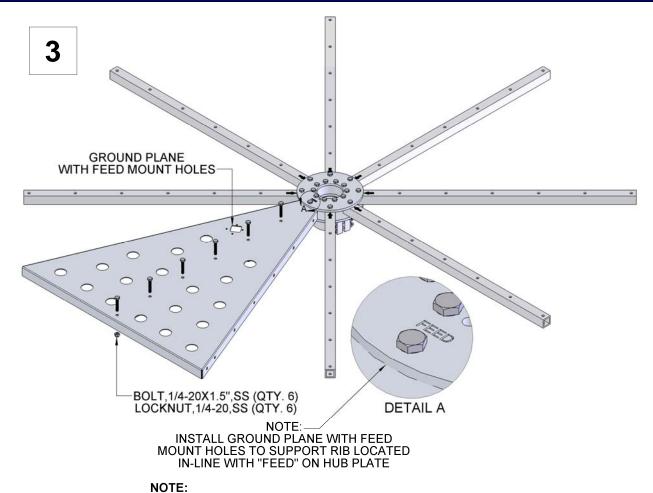
FEATURES:

The M2 125-175-8 Helix antenna offers medium performance characteristics for specialized fixed and rapid deploy operations within the 150 to 175 MHz band. It is perfect for either terrestrial or satellite applications. The antenna is supplied with a counter weight. The antenna is shipped with the helix assembled less ground plane. Finishes are optional. The steel counterweight is zinc plated. Optional arrays of 2 or more are available. Other frequency ranges and gains are also available down to 100 and up to 1300 MHz. Complete motorized, computer controlled AZ-EL systems are also manufactured by M2. Where circular polarity is not required but high bandwidth is, M2 offers a line of various log periodic antennas from 5 to 1300 MHz. If it is antenna related, we probably have made it. Call us with your requirements.

GROUND PLANE HUB ASSEMBLY



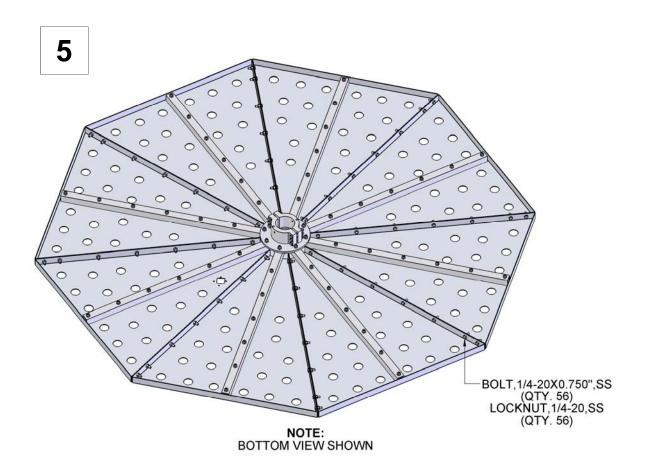
GROUND PLANE HUB ASSEMBLY



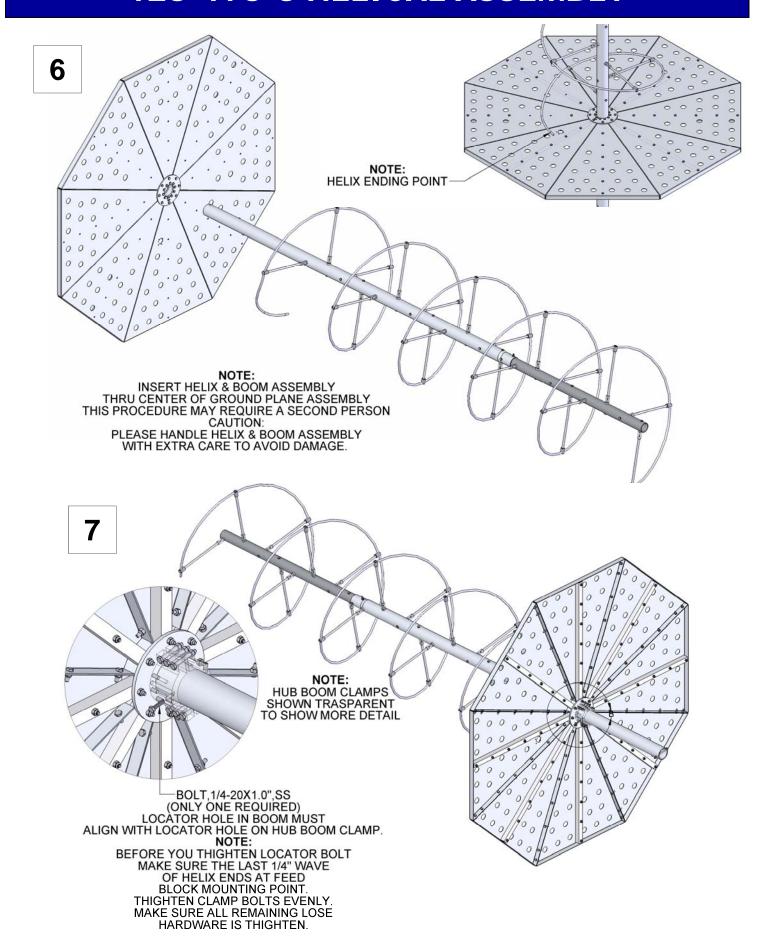
4

DO NOT INSTALL HARDWARE IN THESE (4)HOLES USED LATER TO MOUNT FEED SUPPORT BLOCK & FEED CAPACITOR ASSEMBLY GROUND PLANE WITH FEED MOUNT HOLES (QTY. 7) BOLT, 1/4-20, SS (QTY. 38) LOCKNUT, 1/4-20, SS (QTY. 38)

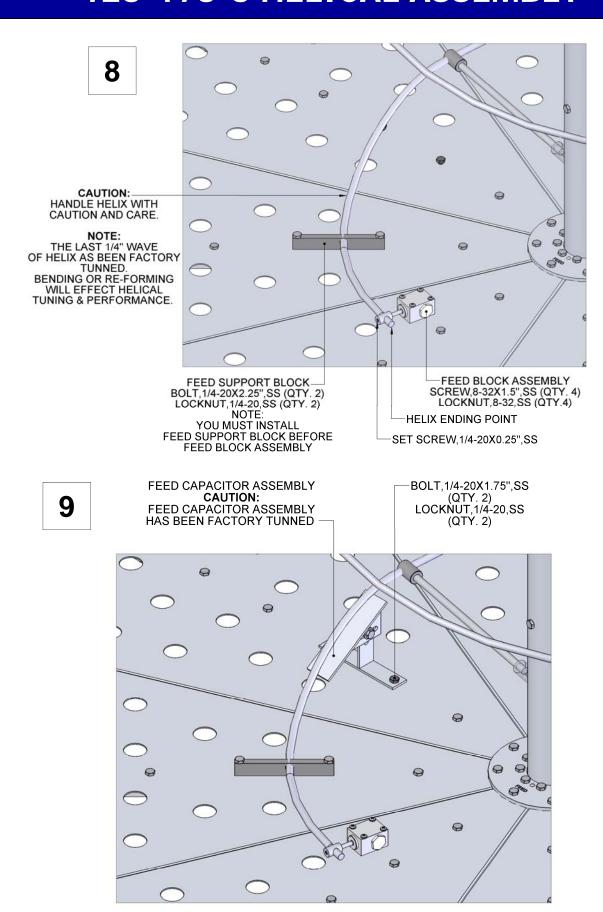
GROUND PLANE HUB ASSEMBLY



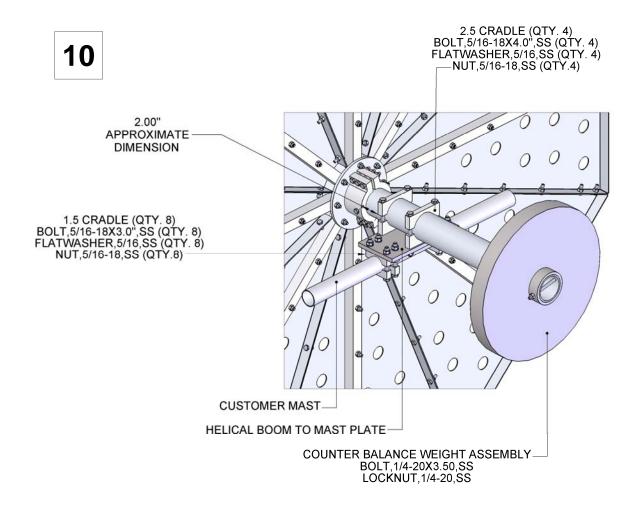
125-175-5 HELICAL ASSEMBLY



125-175-5 HELICAL ASSEMBLY



125-175-5 HELICAL ASSEMBLY



M² ANTENNA SYSTEMS, INC.

4402 N. SELLAND AVE. FRESNO, CA 93722 (559) 432-8873 FAX: 432-3059 www.m2inc.com Email: sales@m2inc.com

125-175-5 PARTS & HARDWARE

DESCRIPTION	QTY
HELIX & BOOM ASSEMBLY	1
FEED BLOCK ASSEMBLY	1
FEED CAPACITOR ASSEMBLY (FACTORY TUNNED)	1
FEED SUPPORT BLOCK	1
GROUND PLANE (W/ FEED MOUNT HOLES)	1
GROUND PLANE	7
HUB PLATE	2
HUB SPACER	
HUB BOOM CLAMP	2
SUPPORT RIB (SQ. TUBE)	
CRADLE, 2.5" (M2AMC0132)	
COUNTER BALANCE WEIGHT ASSEMBLY	
ASSEMBLY MANUAL	1
HARDWARE:	
BOLT, 5/16-18 X 4.0", SS	1
LOCKWASHER, 5/16, SS	
NUT, 5/16-18, SS	
BOLT, 1/4-20 X 3-1/2", SS	1
BOLT, 1/4-20 X 2-1/4", SS	2
BOLT, 1/4-20 X 2", SS	<u>-</u> 72
BOLT. 1/4-20 X 2 , GO	
BOLT,1/4-20 X 1", SS	
BOLT, 1/4-20 X 3/4", SS	64
SET SCREW, 1/4-20 X 1/4", SS	
LOCKNUT, 1/4-20, SS	
SCREW, 8-32 X 1-1/2", SS	4
LOCKNUT, 8-32, SS	
ALLEN KEY, 1/8"	
OPTIONAL 1.5 CROSSBOOM MOUNTING KIT:	
HELICAL BOOM TO MAST PLATE	1
CRADLE, 1.5" (M2AMC0125)	g
BOLT, 5/16-18 X 3.0", SS	
LOCKWASHER, 5/16, SS	
NUT, 5/16-18, SS	8

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125-175-5 (PRE-ASSEMBLED OPTION)

DESCRIPTION	. QTY
HELIX BOOM ASSEMBLY	. 1
FEED BLOCK ASSEMBLY	
FEED CAPACITOR ASSEMBLY (FACTORY TUNNED)	
FEED SUPPORT BLOCK	
GROUND PLANE HALF ASSEMBLY	
PENETROX (ZINC PASTE) CUP	. 1
ASSEMBLY MANUAL	. 1
FEED HARDWARE:	
BOLT, 1/4-20 X 2-1/4", SS	
BOLT. 1/4-20 X 1-3/4", SS	. 2
SET SCREW, 1/4-20 X 1/4", SS	. 1
LOCKNUT, 1/4-20, SS	
SCREW, 8-32 X 1-1/2", SS	. 4
LOCKNUT, 8-32, SS	. 4
ALLEN KEY, 1/8"	. 1
OROUND BLAINE HARRIWARE	
GROUND PLAINE HARDWARE:	_
BOLT, 1/4-20 X 2", SS	
BOLT. 1/4-20 X 3/4", SS	. 14
LOCKNUT, 1/4-20, SS	. 22

Note: Use penetrox or zinc paste on all re-assembled hardware.

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