

GENERAL DYNAMICS
SATCOM Technologies

4096-188

July 28, 2009
Revision C

ASSEMBLY MANUAL

**FEED HORN
MOUNTING INSTRUCTIONS**

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Feed Horn Mounting Instructions

C	Revised Company Name, and Part Tables	7/28/09	RAH
B	Revise Address and Logo	8/29/03	RAH
A	Revised B.O.M. remove flat washers, item 17	4/30/97	PGW
-	ORIGINAL RELEASE	5/15/96	RF
REV.	DESCRIPTION	DATE	APPROVED

The following instructions cover the installation of a Rx/Tx Feed Horn and OMT on a General Dynamics Offset Antenna.

FEED ASSEMBLY

Reference figure 1 on page 3 and the parts list on page 2.

1. Attach the feed horn (item 1) to the OMT (item 2) using the hardware and o-ring provided. **TIGHTEN SECURELY.**
2. Attach the Front Support Plate (item 5) and the Back Support Plate (item 6) to the Feed Mounting Plate (item 7), with four (4) 1/4-20 x .75" countersunk head screws. **TIGHTEN SECURELY.**
3. Attach the feed mounting bracket assembly to the Feed Support using the 5/16" hardware provided. **TIGHTEN SECURELY.**
4. Place the neck of the feed horn in the cradle in the front support plate and secure with Top Feed Support Bracket (item 4) and two (2) 1/4-20 x 1.00" bolts, flat washers and lock washers. **DO NOT TIGHTEN.**
5. Insert the WR75 Adapter (item 3) into the hole in the Back Support Plate, attach OMT, WR75 Adapter and Flex Waveguide or LNB using the hardware and o-rings provided. **TIGHTEN SECURELY.**
6. After setting polarization, the two (2) 1/4-20 bolts from step #4 should be tightened and the 1/4-20 set screw (item 14), should be installed and tightened.

ITEM	PART #	DESCRIPTION	QTY.
1	VARIES	FEED HORN	1
2	VARIES	KU-BAND OMT	1
3	4080-050	WAVEGUIDE SPACER	1
4	4080-060	TOP FEED SUPPORT BRACKET	1
5	0156-589	FRONT SUPPORT BRACKET	1
6	0156-590	BACK SUPPORT BRACKET	1
7	VARIES	FEED MOUNTING PLATE	1
8	0198-121	1.176 I.D. x .070 O-RING	3
9	8031-012	5/16-18 x 1.00" BOLT	2
10	8201-041	5/16" FLAT WASHER	6
11	8202-041	5/16" LOCK WASHER	3
12	8101-009	5/16-18 HEX NUT	3
13	8322-014	1/4-20 x .75" C/SINK HEAD SCREW	4
14	8307-006	1/4-20 x .25" SET SCREW	1
15	8023-008	1/4-20 x 1.00" BOLT	2
16	8202-031	1/4" LOCK WASHER	2
17	8300-002	#6-32 x 0.50" SCREW	4
18	8300-019	#6-32 x 1.25" SCREW	10
19	8200-010	#6 INTERNAL LOCK WASHER	14
20	8112-001	#6-32 HEX NUT	14
21	8300-014	#6-32 x 1.00" SCREW	4
22	VARIES	FEED HORN O-RING	1

