



**PRODELIN**

**A TriPoint Global Company**

**4096-406**

**Revision C**

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**Assembly Manual**

**KU-BAND FEED INSTALLATION  
OMT INTERFACE**

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**KU-BAND FEED INSTALLATION  
OMT INTERFACE**

C	Revised Address	1/22/02	<i>Ret</i>
B	Ku-band feed Parts list Item 6 was 4080-060	080797	PGW
A	Revised P/N of item 7	03/24/95	R Frye
-	Original Release	01/04/95	R Frye
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## GENERAL INFORMATION

This manual describes the steps required to attach a ku-band feed horn and OMT to a Prodelin 1.2m, 1.8M or 2.4M antenna system. Follow the steps outlined in the antenna system installation manual up to the completion of the feed support assembly and then use the steps outlined below to attach the feed horn.

## FEED ASSEMBLY

Refer to the parts list table and figure 1.

- Step 1: Attach the feed horn (item #1) to the OMT's common port (item #20) with #6-32 hardware (item #3 & 4) as shown in figure 1. Tighten completely. Note: Coat o-ring with the silicone grease provided before assembly.
- Step 2: Attach the front support plate (item #7) and the back support plate (item #8) to the feed mounting plate (item #9) with four [4] 1/4-20 x .75" countersunk head screws (item #15). **Tighten Securely.**
- Step 3: Attach the feed mounting bracket assembly from Step #2 to the feed support using the 5/16" hardware provided (item #11, 12, 13, 14). **Tighten Securely.**
- Step 4: Place the neck of the feed horn in the cradle in the front support plate and secure with top feed support bracket (item 6) and two [2] 1/2-20 x 1.00" bolts, flat washers and lock washers (item #17, 18, 19). **Do not tighten.**
- Step 5: Insert the WR75 adapter (item #5) 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.**
- Step 6: After setting polarization, the two 1/4-20 bolts from step #4 should be tightened and the 1/4-20 set screw (item #16, should be installed and tightened.

The antenna assembly is now complete and ready for alignment. Refer to the antenna system installation manual for alignment guidelines.

KU-BAND FEED PARTS LISTS			
ITEM NO.	PART NO.	DESCRIPTION	QTY
1	0183-478	Feed Horn	1
2	0198-120	O-Ring	1
3	8300-002	#6-32 x .50" SH Screw	6
4	8300-010	#6 Lock washers	6
5	4080-050	WR75 Adapter	1
6	0211-400	Top Feed Support Bracket	1
7	0156-575	Front Support Bracket	1
8	0156-571	Back Support Bracket	1
9	0156-111	Feed Mounting Plate	1
10	0198-121	1.176 ID x .070 O-Ring	1
11	8031-008	5/16-18 x 1.00" Bolt	2
12	8201-041	5/16" Flat washer	4
13	8202-041	5/16" lock washer	2
14	8101-009	5/16-18 hex nut	2
15	8322-044	1/4-20 x .75" C'sk head screw	4
16	8307-006	1/4-20 x .25" Set screw	1
17	8023-008	1/4-20 x .100" Bolt	2
18	8202-031	1/4" Lock washer	2
19	8201-036	1/4" Flat washer	2
20	4080-062	Ku-band OMT	1

