

1. Quattro Quad Linear LNB Replacement Procedure.

Below are the instructions for replacing a defective Brainwave Quad Linear LNB with a Quattro Quad Linear LNB on the Series 04/6003A Antenna Systems. As a part of the replacement process you will be required to perform the following steps:

- Removal and replacement of the LNB's
- Re-balance the General assembly
- Electrical calibration of the feed assembly (re-optimizing the POL OFFSET/Sat Skew parameter value).
- Verify normal operation of the system

Remove and Replace the LNB's

Using the SAT Menu, Target a satellite that is of your same longitudinal position. (i.e. We would target a satellite number of 122W for our GEO location of 38N and 122W in Concord California). Turn power off to the system, once the Target LED on the front panel of the ACU extinguishes. Open the radome hatch or remove radome top. Rotate the antenna by hand to gain access to the back of the dish. Note that with the body of the current LNB is vertical (straight up). NOTE or Record the color code of the coax to LNB port assignments. Then remove coaxes connected to the LNB



Note or Record the color code of the coax to LNB port assignments. (i.e. Blue to Horizontal Hi-Band.) Then remove coaxes connected to the LNB

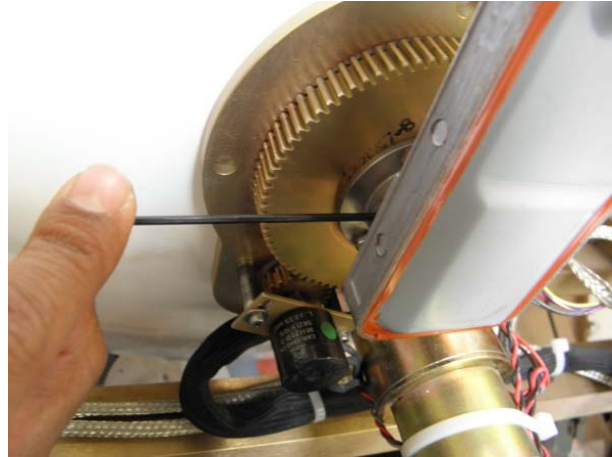


Loosen the Allen set screws on the existing LNB mounting collar (three set screws, 120 degrees apart) and remove it from the mounting collar.



Allen Head Set Screws

Insert the new LNB into the mounting collar, **assure it is seated all the way into the mounting collar tube**, rotate the LNB as needed to align the center of the body of the LNB to a vertical position (straight up) and tighten the set screws. This must be aligned this way to ensure full range of drive motion to prevent the LNB from hitting the Motor or Pot during polarization drive and to allow for electrical calibration.



Using the color code recorded earlier, install and secure the coaxes to the new Quattro Quad Band LNB.

NOTE: Although it will use the same color code (i.e. The Left to Right Port assignments on the Quattro Quad LNB is NOT the same as the Brainwave Quad LNB).



Re-balance the feed assembly

After you have balanced the feed assembly, transfer the coax cables from the old LNB to the new LNB, **assure that the correct color coax is attached to the correct port on the LNB.**

Blue Coax to Vertical Lo Band
Green Coax to Vertical Hi Band
Yellow Coax to Horizontal Hi Band
White Coax to Horizontal Lo Band

NOTE: The Quattro Quad LNB Port assignments are slightly different than that of the Brainwave Quad LNB.



Re-install the radome top and tighten radome hardware. Do not exceed 24 in-lb (21 kg-cm) torque.

Verify that the LNB is operating properly and resume normal operation by targeting the desired Ku-Band Linear Based Satellite.

Using your receivers satellite signal meter, adjust POL Skew to obtain the highest signal Quality possible and save to the appropriate preset.

If you are unable to achieve a valid Quality level, refer to your antenna manual and calibrate the Polarization Pot.