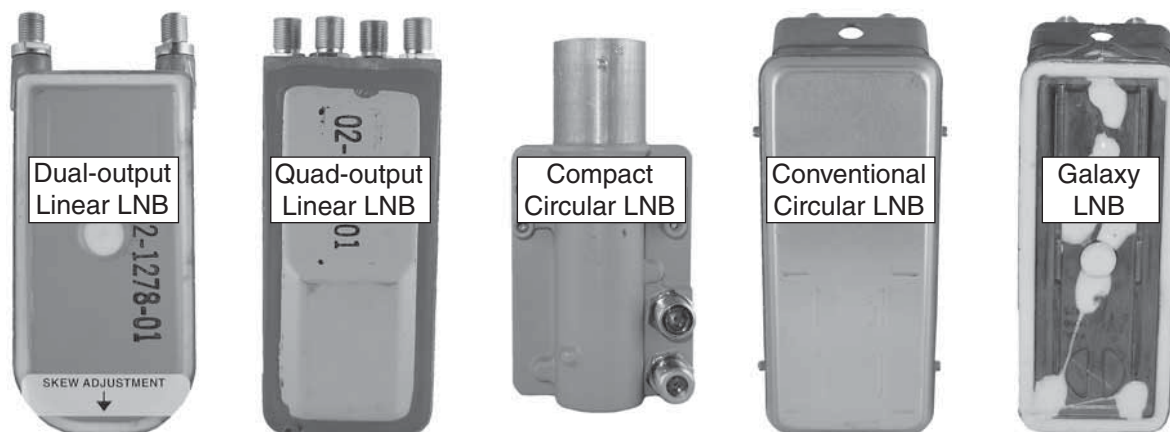


TracVision M7 LNB Replacement

These instructions explain how to replace the LNB in a TracVision[®] M7 system.

LNB Types

These instructions apply to any of the LNB types shown below:



Tools Required

This procedure requires the following tools:

- #2 Phillips screwdriver
- Wire cutters
- 2 mm allen hex key
- 7/16" open-end wrench

CAUTION - Electrical Shock Hazard

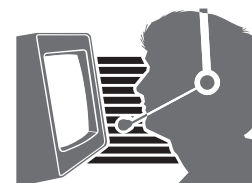


For your own safety, disconnect power from all system components before you start working on the antenna.

Technical Support

North/South America, Australia:
Phone: +1 401 847-3327
E-mail: techs@kvh.com
(Mon.-Fri., 9 am-6 pm ET, +5 GMT)
(Sat., 9 am-2 pm ET, +5 GMT)

Europe, Middle East, Asia:
Phone: +45 45 160 180
E-mail: support@kvh.dk
(Mon.-Thu., 8 am-4:30 pm, -1 GMT)
(Fri., 8 am-2 pm, -1 GMT)



LNB Replacement Instructions

Follow these steps to replace the LNB.

- a. Disconnect power from all system components, including the receiver(s).
- b. Using a #2 Phillips screwdriver, remove the six #10-32 screws securing the radome to the antenna's baseplate (see Figure 1). Remove the radome and set it aside in a safe place.
- c. **If you are replacing a linear LNB**, note the skew angle of the currently installed LNB (see Figure 2). Later, you will need to set the new LNB to this skew angle.
- d. Cut and remove the tie-wrap securing the RF cables to the currently installed LNB (see Figure 3).

Figure 1: Removing the Radome

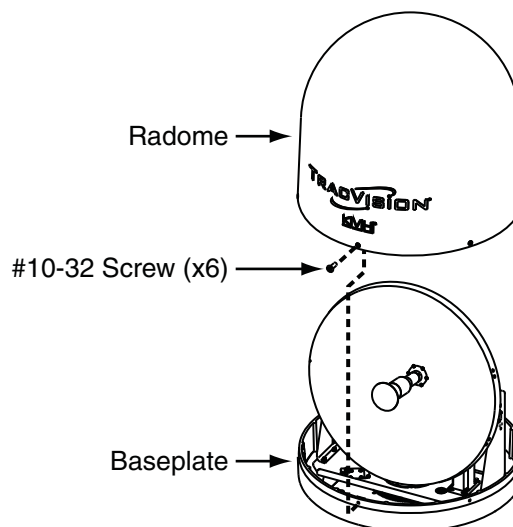


Figure 2: LNB Skew Setting, Example (Linear Only)

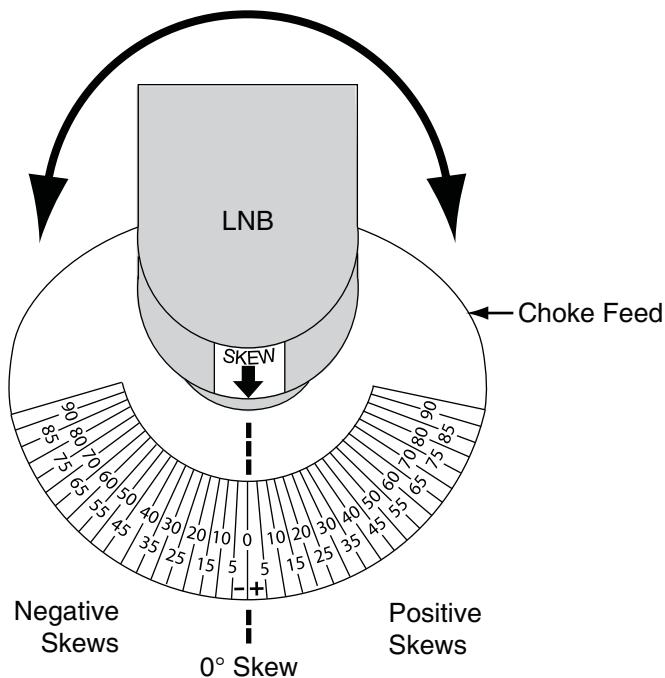
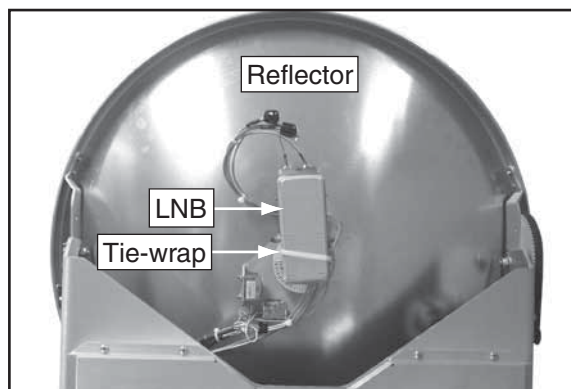


Figure 3: Tie-wrap Securing RF Cables to the LNB



Continued LNB Replacement Instructions

- e. Disconnect the RF cables from the current LNB and connect them to the corresponding connectors on the new LNB (see Figure 4 through Figure 8). *Label the cables first, if necessary.*

Figure 4: Linear Dual-output LNB

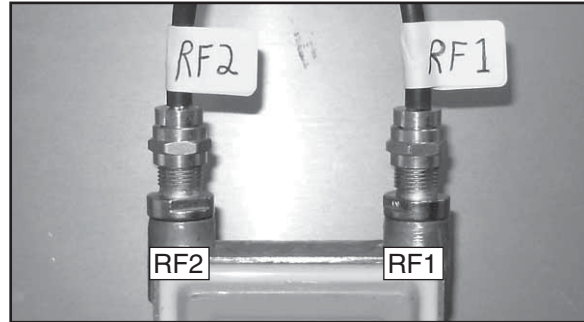


Figure 5: Linear Quad-output LNB

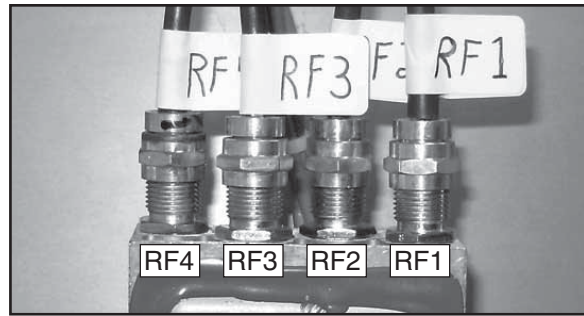


Figure 6: Compact Circular LNB

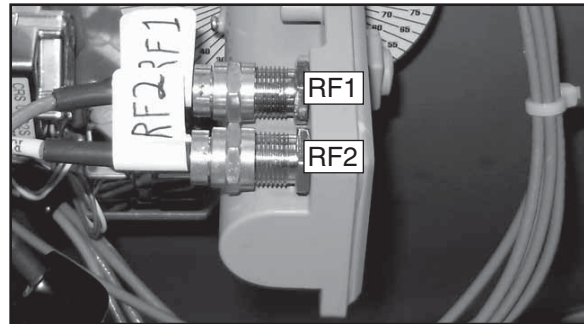


Figure 7: Conventional Circular LNB

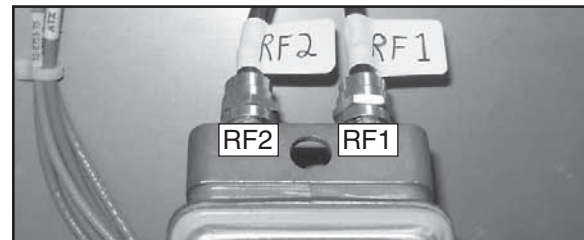
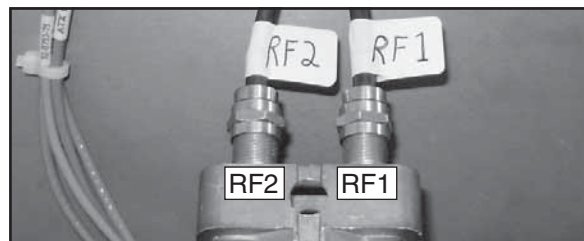


Figure 8: Galaxy LNB



Continued LNB Replacement Instructions

- f. **If the antenna has a serial number later than 080201076:** Using a 2 mm allen hex key, loosen the two M4 socket set screws securing the current LNB to the reflector (see Figure 9).

If your antenna has a serial number earlier than 080201077, loosen the two wing screws securing the current LNB to the reflector (see Figure 10).

- g. Remove the current (old) LNB.
- h. Insert the new LNB fully into the choke feed with the connectors aligned upright.
- i. **If you are replacing a linear LNB,** rotate the LNB as necessary to set the LNB to the skew setting you noted earlier (see Figure 2 on page 3).
- j. **If the antenna has a serial number later than 080201076:** Tighten the two M4 socket set screws to secure the LNB in place. Apply 9 in-lbs (1 Nm) of torque, if possible.

If your antenna has a serial number earlier than 080201077: Tighten the wing screws to secure the LNB in place.

Figure 9: LNB Retaining Screws, Newer Antenna

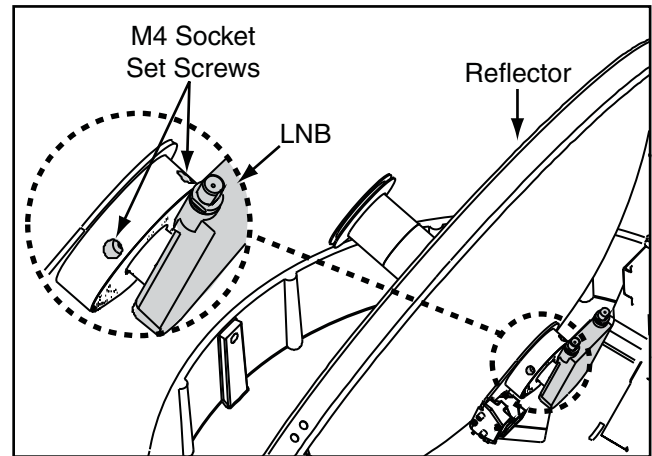
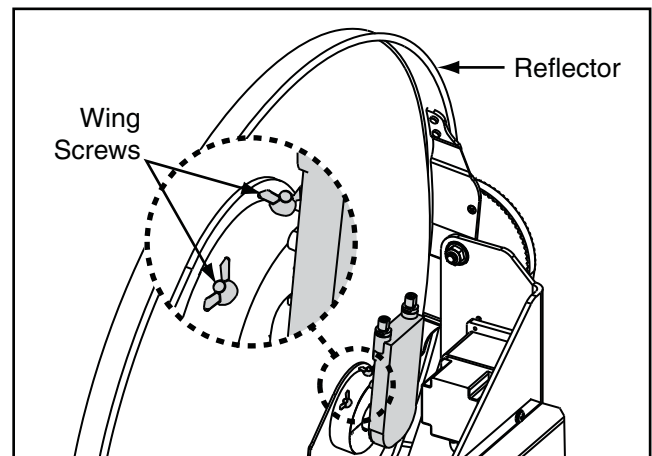


Figure 10: LNB Retaining Screws, Older Antenna



Continued LNB Replacement Instructions

- k. Using a tie-wrap (*supplied in the kit*), secure the RF cables to the new LNB to prevent them from getting snagged when the antenna is in motion. (Refer to Figure 11 for a compact circular LNB; refer to Figure 12 for all other LNB types.)

IMPORTANT!

Trim the excess portion of the tie-wrap and collect it from the antenna to avoid damage when the antenna rotates.

- l. Reattach the radome (see Figure 1 on page 3).
- m. Reconnect power to the TracVision system components.

The LNB replacement process is complete!

Figure 11: Securing RF Cables (Compact Circular LNB Shown)

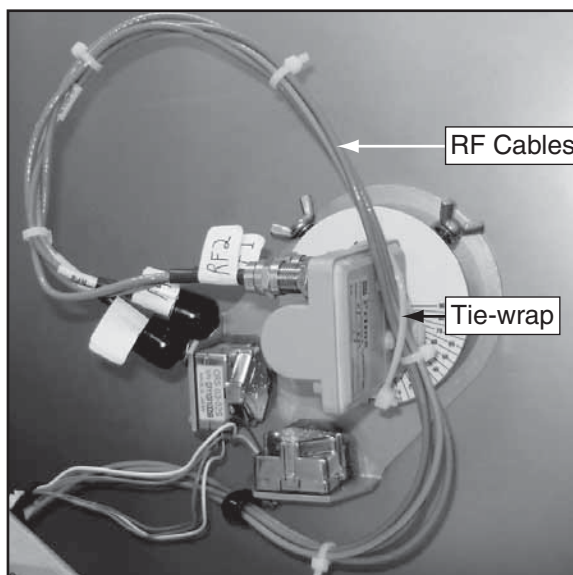


Figure 12: Securing RF Cables (Linear LNB Shown)

