

# TracPhone® V30 LNB

## Replacement Instructions



The following instructions explain how to replace the LNB in a TracPhone V30 antenna.

*NOTE: Your antenna might have parts that differ from those pictured in this document. Such differences have no bearing on the instructions unless noted otherwise.*

### Table of Contents

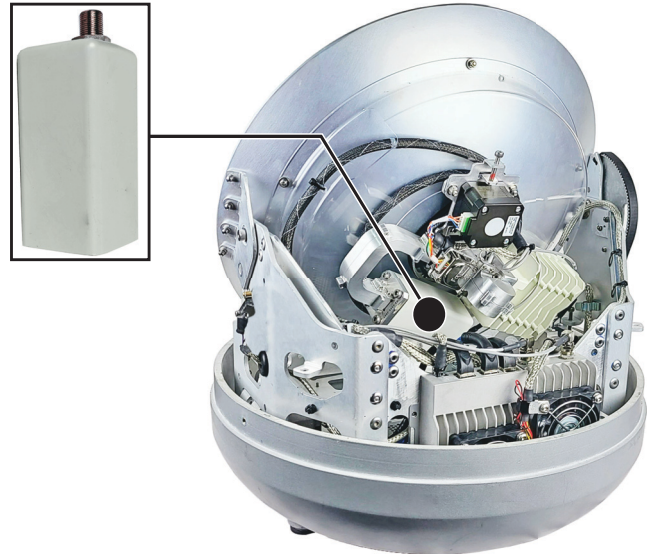
Remove the Radome.....	2
Replace the LNB .....	2

### Tools Required

This procedure requires the following tools:

- Phillips screwdrivers
- Driver with T20 Torx bit
- Torque driver set to 21 in-lbs
- 7/16" open-end wrench
- 7/16" torque wrench set to 15 in-lbs

Figure 1: LNB



## Technical Support

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## Remove the Radome

Follow the steps below to disconnect power and remove the radome from the antenna.

1. Power off and unplug the VSAT-Hub to disconnect power from the antenna.



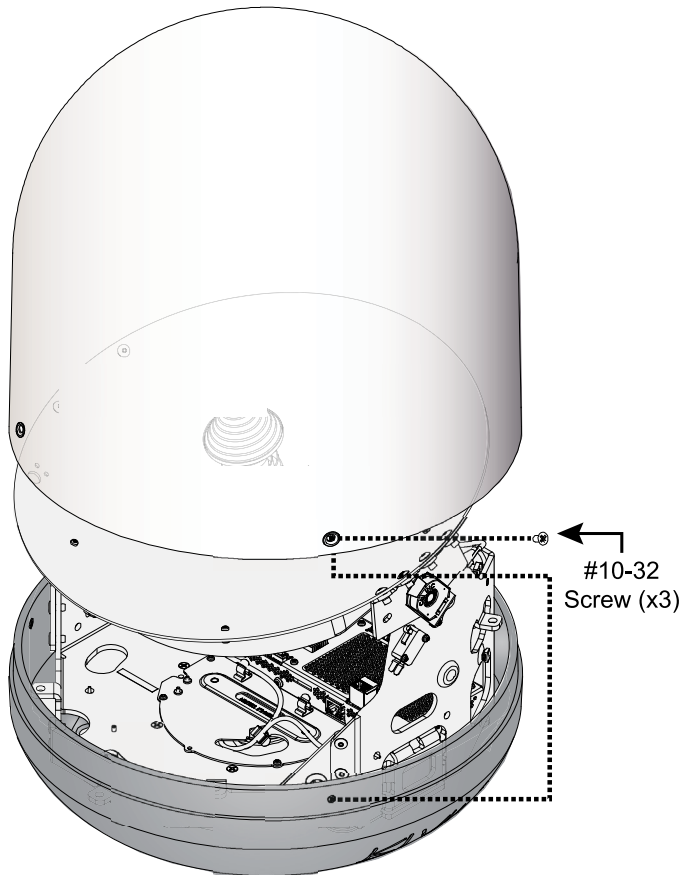
### CAUTION

To prevent injury, be sure to disconnect all power from the antenna before proceeding. Power must remain disconnected for the duration of this procedure.

2. Remove and discard the three #10-32 screws securing the radome to the baseplate (see Figure 2). Carefully lift the radome straight up until clear of the antenna assembly and set it aside in a safe place.

*NOTE: If you keep the radome topside, secure it with a lanyard to prevent it from falling overboard. Also, do not place the radome on a hot steel deck – the heat may warp the radome.*

Figure 2: Radome Screws



## Replace the LNB

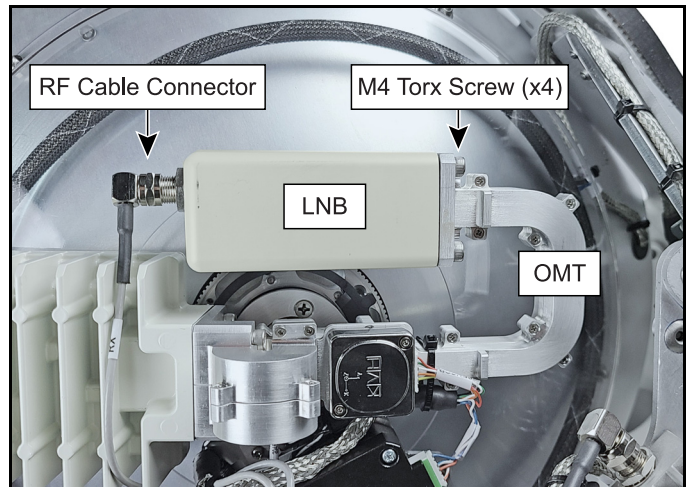
Follow the steps below to replace the LNB.

### IMPORTANT!

Before removal, note the orientation of the LNB and be sure to match this orientation when installing the replacement LNB.

1. Using a 7/16" open-end wrench, disconnect the RF cable from the LNB (see Figure 3). To avoid stressing the cable, hold the top of the connector with your fingers while loosening.

Figure 3: LNB RF Cable and Mounting Screws



2. Using a T20 Torx screwdriver, remove and discard the four M4 Torx screws securing the LNB to the OMT (see Figure 3). Then remove and discard the defective LNB and its O-ring gasket.

**IMPORTANT!**

Do not remove and discard the Kapton tape from the replacement LNB and ensure the new O-ring gasket remains in place during the installation.

Figure 4: LNB with O-Ring in Place



3. Using four new M4 Torx screws (T20) (*supplied in kit*), secure the new LNB to the OMT, with the LNB's label facing the reflector. Tighten the screws to approximately 21 in-lbs of torque.
4. Apply some silicone grease inside the connector of the RF cable and reconnect it to the LNB, making sure the RF cable is aligned to prevent any interference when the feed assembly rotates. Hand-tighten, then tighten with a 7/16" torque wrench set to 15 in-lbs.
5. Slowly rotate the RF feed assembly in all directions to ensure nothing restricts movement. Adjust the cable routing, if necessary.
6. Inspect the inside of the antenna to make sure you have not left any tools inside.
7. Reinstall the radome onto the antenna and secure it with three new #10-32 screws (*supplied in kit*). Tighten the screws to 5 in-lbs of torque.
8. Reconnect power to the VSAT-Hub.
9. Test the system for normal operation. If the problem persists, contact KVH Technical Support.

The replacement procedure is complete!