

# TracPhone® V30 BUC Replacement Instructions



The following instructions explain how to replace the BUC 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.*

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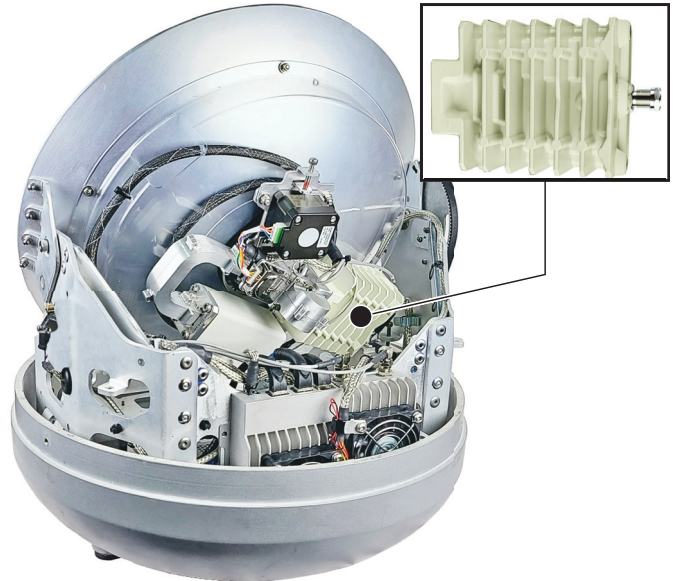
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## Tools Required

This procedure requires the following tools:

- #2 Phillips screwdriver
- 3 mm long-arm ball-end hex key
- Torque wrench with 3 mm long ball-end hex bit set to 21 in-lbs
- 7/16" open-end wrench
- 7/16" torque wrench set to 15 in-lbs

Figure 1: BUC



## 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.



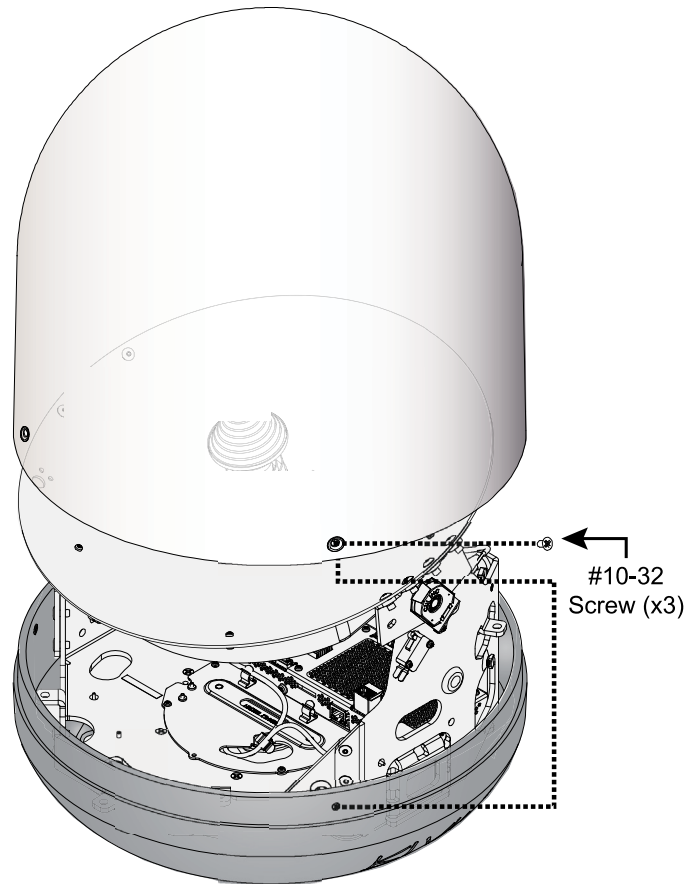
### CAUTION

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 BUC



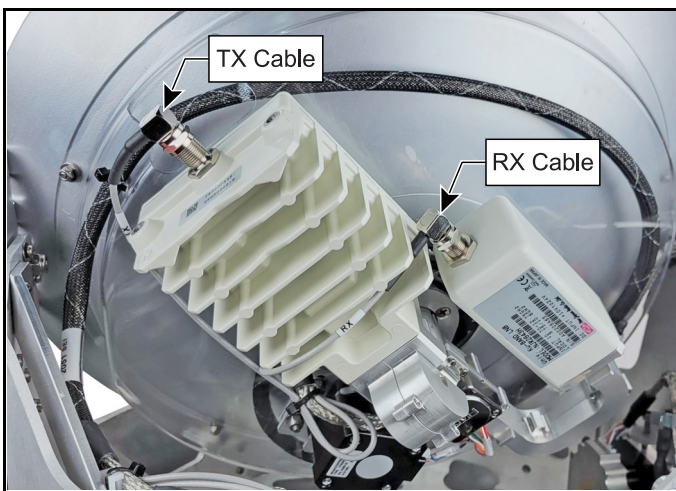
### CAUTION

Before you begin, allow the BUC to cool. Its outer surface can get hot while powered up.

Follow the steps below to replace the BUC.

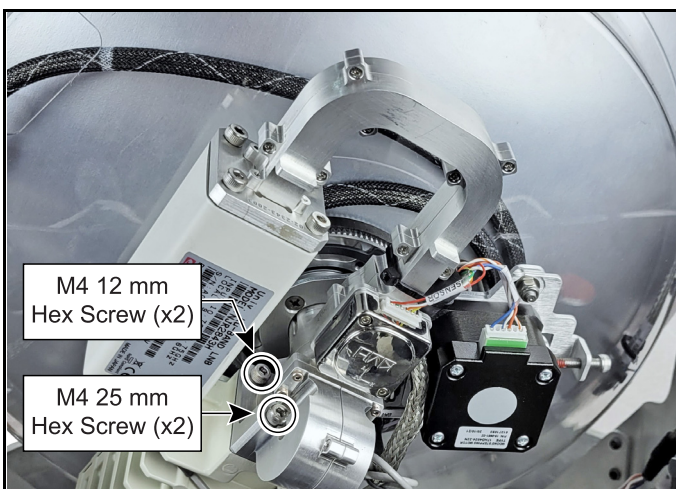
1. Using a 7/16" open-end wrench, disconnect the TX RF cable from the BUC and the RX RF cable from the LNB (see Figure 3). To avoid stressing the cable, hold the top of the connector with your fingers while loosening.

Figure 3: BUC and LNB RF Cables



2. Using a 3 mm long-arm ball-end hex key, remove and discard the four M4 hex-head screws securing the BUC to the RF feed assembly (see Figure 4). Remove the screws closest to the reflector first.

Figure 4: BUC Screws



3. Remove the old BUC.

4. Attach the new BUC to the RF feed assembly with four new M4 hex-head screws (*supplied in kit*). Insert the shorter (12 mm) screws closest to the reflector first. Then insert the longer (25 mm) screws further away from the reflector (see Figure 4). Tighten the screws to 21 in-lbs of torque.

### IMPORTANT!

Be sure to use the correct size screws when securing the new BUC to the RF feed assembly. The supplied screws are in two lengths.

5. Apply some silicone grease inside the connector of the TX RF cable and reconnect it to the BUC. Orient the connector as shown in Figure 3 and tighten to 15 in-lbs of torque.
6. Apply some silicone grease inside the connector of the RX RF cable and reconnect it to the LNB. Orient the connector as shown in Figure 3 and tighten to 15 in-lbs of torque.
7. Slowly rotate the RF feed assembly in all directions to ensure nothing restricts movement. Adjust the cable routing, if necessary.
8. Inspect the inside of the antenna to make sure you have not left any tools inside.
9. 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.
10. Reconnect power to the VSAT-Hub.
11. Test the system for normal operation. If the problem persists, contact KVH Technical Support.

The replacement procedure is complete!