

TracPhone® V30 Elevation Limit Switch Replacement Instructions



The following instructions explain how to replace the elevation limit switch 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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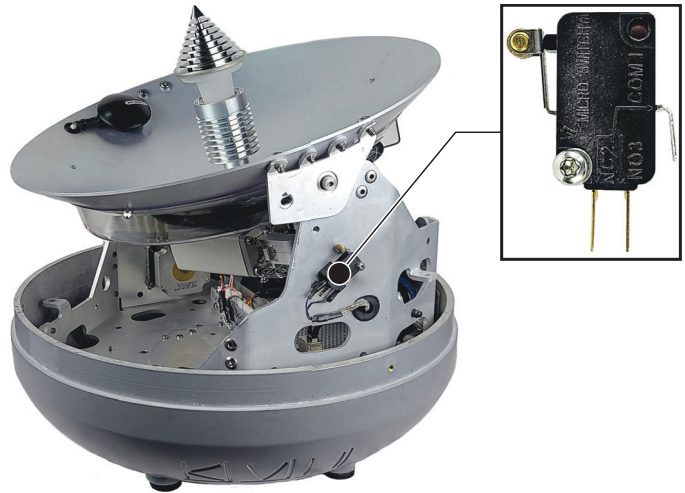
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Tools Required

This procedure requires the following tools:

- Phillips screwdrivers
- 5.5 mm wrench
- Driver with T10 Torx bit
- Torque driver set to 5 in-lbs
- Needle-nose pliers

Figure 1: Elevation Limit Switch



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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.



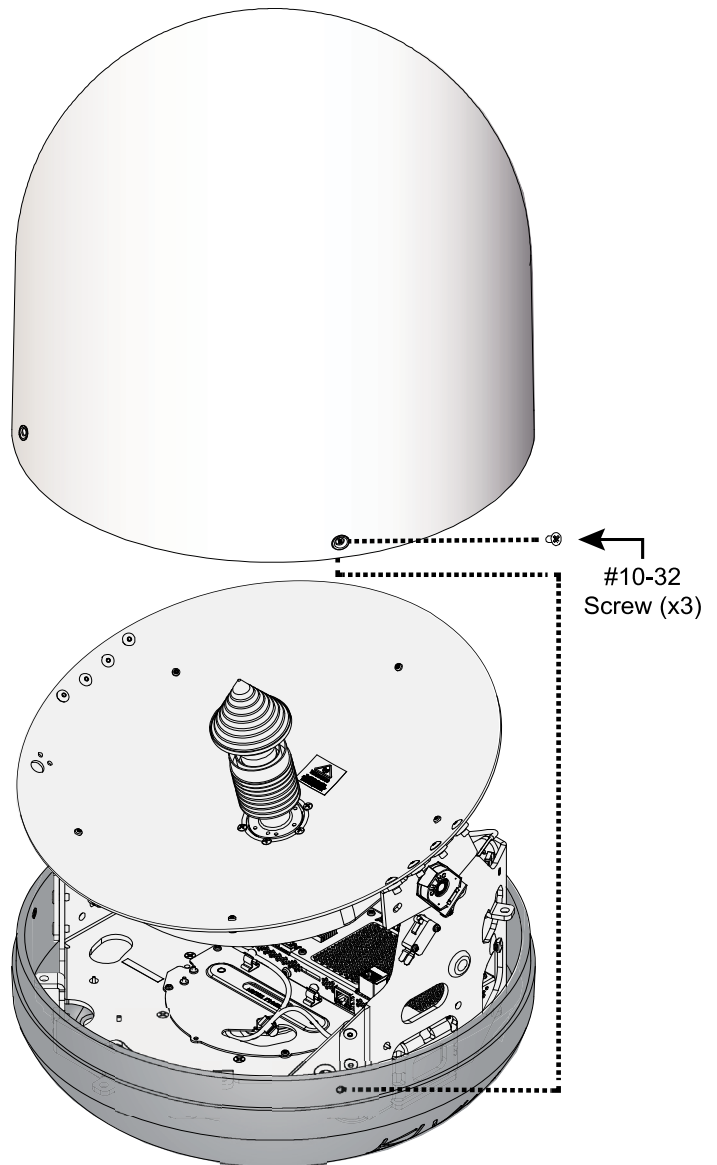
CAUTION

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. 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. Do not place the radome on a hot steel deck – the heat may warp the radome.

Figure 2: Radome Screws

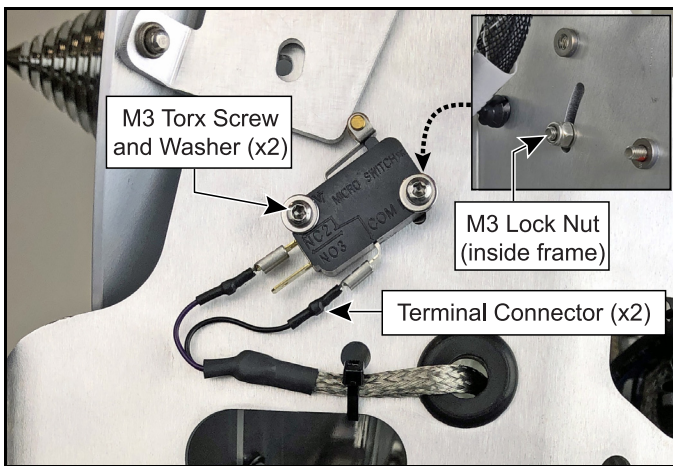


Replace the Elevation Limit Switch

Follow the steps below to replace the elevation limit switch.

1. Disconnect the two wires from the elevation limit switch. Grasp the wires at the terminal connectors to avoid damaging the wires.
2. Using a T10 Torx screwdriver, remove and discard the two M3 Torx screws and washers, and the single M3 lock nut securing the elevation limit switch to the antenna frame. Then remove and discard the defective limit switch.

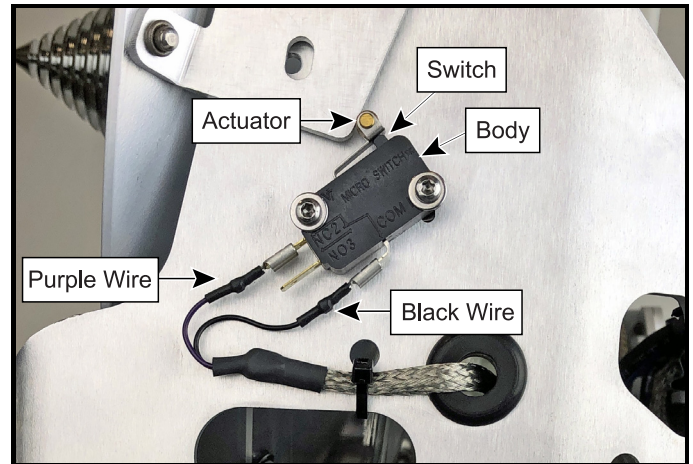
Figure 3: Limit Switch Hardware and Connectors



3. Secure the replacement elevation limit switch to the antenna frame using a new M3 Torx screw (T10) and washer (*supplied in kit*) at the lower location and a new M3 screw, washers, and lock nut at the higher location. Do not tighten the screws yet.

4. Connect the black and purple wires to the replacement limit switch as shown in Figure 4. The center terminal is not used.

Figure 4: Limit Switch Wires and Engagement Components



5. Move the reflector downward until it reaches its hard stop.
6. While holding the reflector in this position, adjust the position of the limit switch so that its actuator is pressed against the reflector bracket and the body of the limit switch is pressed against the actuator (the switch is completely pressed in).
7. While holding the limit switch in this precise position, tighten the screws and lock nut on the limit switch to secure it in place. Tighten to 5 in-lbs of torque.
8. Move the reflector up and down to ensure the limit switch actuator engages the switch before the reflector touches the hard stop.
9. Inspect the inside of the antenna to make sure you have not left any tools or debris inside.
10. 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.
11. Reconnect power to the VSAT-Hub.
12. Test the system for normal operation. If the problem persists, contact KVH Technical Support.

The replacement procedure is complete!