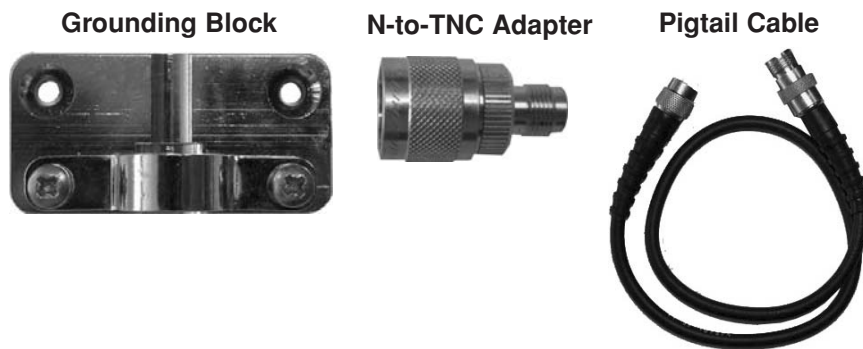


TracPhone® F33 Antenna Cable Grounding Instructions

The following instructions explain how to properly ground the TracPhone F33 antenna cable.

Grounding Kit Contents

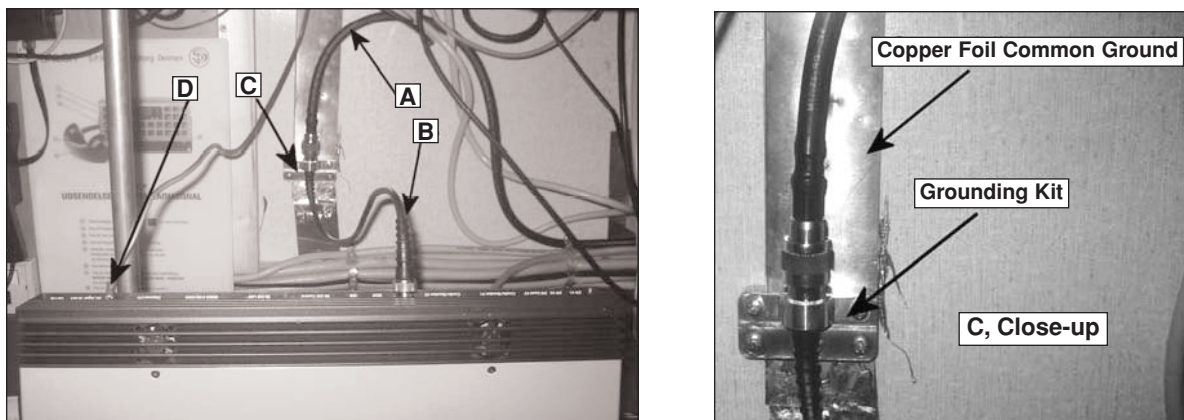
The following parts are included with the grounding kit:



Installation Instructions

Refer to Figure 1 and follow the steps below to ground the antenna cable using the grounding kit.

Figure 1 Antenna Cable Properly Grounded



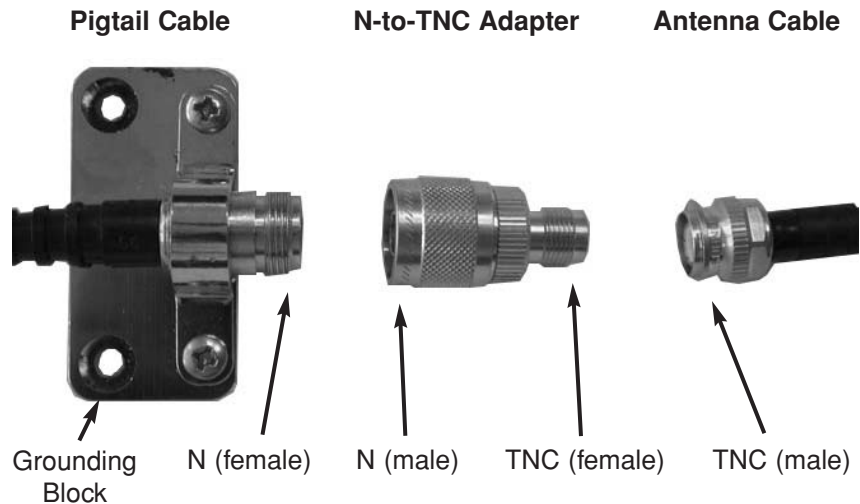
1. Disconnect power from the antenna unit.
2. If the antenna cable ("A" in Figure 1) is already connected to the Below Deck Unit (BDU), disconnect it.
3. Connect the male TNC connector end of the pigtail cable to the female TNC connector on the BDU (see "B" in Figure 1). **The pigtail cable is only 19.6" (50 cm) long and must not be extended.**



Before servicing the antenna unit, be sure to disconnect vessel power.

- Connect the antenna cable to the female N-connector end of the pigtail cable. If the antenna cable has a TNC connector, use the supplied N-to-TNC adapter to connect to the pigtail cable (see Figure 2). If the antenna cable has an N-connector, the adapter is unnecessary.

Figure 2 Using the N-to-TNC Adapter



- Clamp the N-connector of the pigtail cable to the grounding block (see Figure 2).
- Mount the grounding block to the hull or other common ground (see "C" in Figure 1).

If you cannot access the hull, you can extend the ship's ground plan by using copper foil. The foil must be at least 0.0039" (0.1 mm) thick. The maximum length of the foil depends on the foil's width:

Foil Width	Max. Length
2" (5 cm)	20" (50 cm)
4" (10 cm)	40" (100 cm)
8" (20 cm)	80" (200 cm)

Attach the foil to the hull using plenty of screws or hard-soldering. Run the foil past the pigtail grounding location and mount the grounding block on top of the foil.

- As noted in the *TracPhone F33 Installation Manual*, be sure to ground the BDU as well. Connect a ground wire at the grounding point near the BDU power plug (see "D" in Figure 1). Secure the wire in place using an M3x6 screw.