



### Overview

To simplify the installation process, we are now using the green ground screw in place of the ground lug for most install situations. This will now be the preferred method for providing continuity between the dish mast and messenger cable in the grounding system. In the future, the green ground screw will come pre-installed on masts to further simplify installations.

### Why It's Important

The green ground screw simplifies installations and reduces installation cost. Unlike the ground lug, technicians no longer need to scrape paint off the mast to ensure electrical continuity. This will save time and effort.

### What I Need to Do

#### Install the Green Ground Screw

Begin by threading the green ground screw into one of the small holes located on the footplate (Fig. 1/Fig. 2). Thread the green ground screw (Fig. 3) using the 1/4" driver of your 6-in-1 screwdriver (Fig. 4). Tighten the green ground screw just enough so that the messenger wire can still fit behind it.



Figure 1: Correct (footplate, small-hole side)



Figure 2: Wrong (footplate, large-hole side)



Figure 3: Ground screw threaded



Figure 4: 1/4" Driver on 6-in-1 screwdriver

# Ground Screw

## Prepare the Messenger Cable

Separate a short section of the messenger wire from the cable and strip the plastic coating off the end (Fig. 5). Once the coating has been peeled off, create a “U” shape with the bare end of the messenger wire. This “U” shape will be used to wrap around the ground screw.



Figure 5: Messenger wire separated



Figure 6: “U” shape

## Finish the Green Ground Screw Installation

Now take the “U”-shaped end of the messenger wire and hook it around the green ground screw (Fig. 7). The wire should extend from the cable to the ground screw in as straight a manner possible with no twisting or sharp bends. Hooking the “U” shape so that the end is in a clockwise orientation will allow for the best results. Then tighten the ground screw, making sure that the messenger wire is pinched between the head of the screw and the foot plate (Fig. 8).



Figure 7: Hooked Clockwise (when the screw is tightened, it “grabs” the messenger wire)



Figure 8: Tighten the green ground screw

**Note:** Each green ground screw is intended for a single messenger wire. The green ground screw will be available for use in most instances; however there are times that a ground lug will still be necessary. As a result, DNS will continue to provide ground lugs for those specific situations (e.g. when installing wing dishes and mounts that do not utilize a foot plate).