

# Long Whip Antenna

## Compatibility

May be used with the following DigiTrak® displays:

- Aurora™ Touchscreen Display
- FSD™ F Series Display
- MFD® Multi-Function Display
- SED™ SE Display

The long whip antenna can extend the potential range between a DigiTrak receiver and remote display, as compared to the range provided by a 13 in. (33 cm) whip antenna. It is available in both low and high frequency versions, with either BNC or TNC fittings.

In some areas outside the U.S., use of the long whip antenna may be necessary due to regional requirements. See your operator's manual for more information.

## Mounting

The long whip antenna has a magnetic base that will hold it securely on a suitable metal surface. Install the antenna in a vertical orientation as high as possible where it will have a clear line of sight to the DigiTrak receiver.

## Connection

The connector on your antenna may be either threaded (TNC) or bayonet (BNC).

If your cable has a TNC connector, align the connector to the fitting on your display or bulkhead fitting and carefully screw the connector on clockwise until it is snug.

If your cable has a BNC connector, rotate the connector until the keyed slots line up with those on your display or bulkhead connector, then push the connector in and rotate clockwise a quarter turn to lock it.

## Safety

Do not use this antenna where any portion of it may come into contact with any source of electricity. If this should happen, do not attempt to remove it yourself. Stay where you are and call the local power company for help.

Remove and safely store the antenna prior to transporting the drill rig.

## Important Installation Guidelines

For improved telemetry performance of a DigiTrak locating system, observe the following important installation guidelines:

1. Any loops of extra coaxial cable must be compressed so they do not act as an antenna for interference. Do not bundle the cable with any other cabling.



**Compressed Coaxial Cable Loops**

2. Every coaxial connection increases signal loss to some degree. Do not create any intermediate connections, such as an adapter or bulkhead pass-through, unless absolutely necessary.
3. The antenna *must* be mounted vertically (up or down).
4. Install the antenna at least 24 in. (60 cm) away from adjacent vertical metal structures or other RF antennas.
5. Secure the coaxial cable with zip ties or other means to prevent unnecessary vibration, rubbing, or possible loosening of connections.
6. To prevent potential damage to the antenna or connector, avoid locations where the operator's normal range of motion may result in contact with the antenna.
7. Maintain a clear line of sight between the antenna and the DigiTrak receiver.
8. When testing signal range, note that environmental interference such as power lines can compromise test results.

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