

Cable/Signal Requirements and Issues

PVS and Embedded Touch Screens

Coax Cable Connector

To ensure the proper delivery of both analog and digital signals, Star Trac requires all coax cables to have compression connectors (Fig. 1).



Fig. 1

The dielectric must be flush with the hole in the connector (Fig. 2). The center connector must be free from braid debris as well (Fig. 4).



Fig. 2

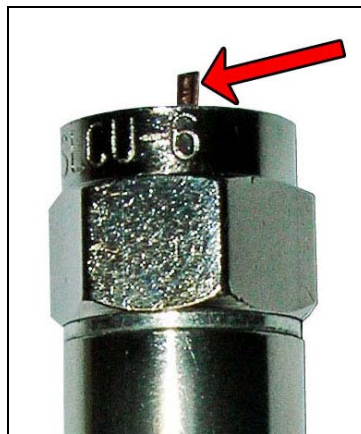


Fig. 3

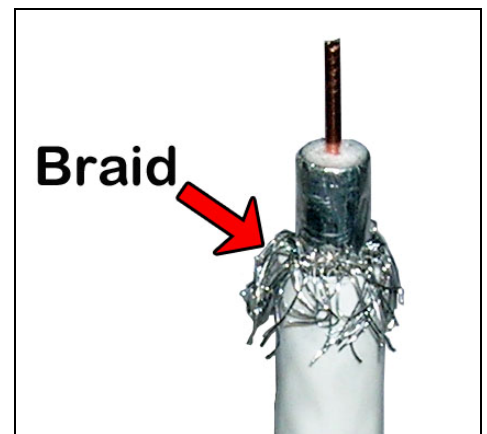


Fig. 4

Signal Strength

Signal strength must be between 0db – 5db.

Issues

Incorrect Coax Cable Connectors



Crimp On



Twist On



Two Piece

These connectors do not offer a water-tight solid connection like the compression connectors. They are also more likely to interfere with digital signals.

Possible Symptoms:

- Analog Interference (Fig. 5)
- Digital Interference (Fig. 6)
- Digital Pixilation (Fig. 6)



Fig. 5



Fig. 6

Compression Connector Debris

This occurs when any of the braiding is touching the center conductor (Fig. 7) or if there is no dielectric around the center conductor.



Fig. 7

Possible Symptom

- Analog :Snowy/grainy picture (Fig. 8)
- Digital: No digital channels
- Digital : Freezing or pixilation (Fig. 9)



Fig. 8



Fig. 9

Suck Out

This occurs when the dielectric and center conductor get pulled back into the connector (Fig. 10). The center conductor is not long enough to make the proper connection. This is often caused by a broken connector (Fig. 11).



Fig. 10



Fig. 11

Possible Symptoms

- Analog: Snowy/Grainy Picture
- No Digital Channels Only
- No Digital or Analog Channels