

Now that you have good Q on the satellite directly south, or very close to south, we are going to find one end of the arc.

AZIMUTH ADJUSTMENT

AKA; The end of the arc, near the horizon.

Drive your dish so that the actuator retracts, shortens.

Watch for Q on known active transponders on sats East or West of your ZENITH sat. Whichever direction that is, when you retract your actuator.

When you don't see another Q reading, go back to the last Q indication you had. Peak the reading with your actuator. Take Note of Q reading.

Manually rotate the mount slightly East or west.

This is the AZIMUTH adjustment.

If the Q you had drops. rotate the opposite direction.

Maximize the Q indication by alternately rotating, then driving the dish back and forth with the actuator. If you can't get Q back to where it was, you've rotated the mount (AZIMUTH) the wrong direction.

Repeat as necessary until you get no more improvement.

Then repeat this whole paragraph until you're at the end of the arc.

NOTE:

When we are not at our ZENITH sat, we DO NOT adjust polar ELEVATION, When we are not at ZENITH, the actuator moves the dish up and down, the further from ZENITH, the more up and down. We, therefore, only adjust AZIMUTH.

When we have the arc aligned, tighten up the AZIMUTH bolts, drive the dish back to ZENITH and find the ZENITH sat again.

If Q dropped slightly, re-adjust polar elevation angle.

Should only be a very slight adjustment. (see NOTE- below)

Tighten up polar elevation angle locks. Check sats on the opposite side of where you tuned up the dish. Should be OK.

(NOTE) If the Polar Elevation angle changed by more than a degree or two, after returning to ZENITH, suspect an off center feed, improper declination, loose or sloppy polar axis pivots, or some other mechanical problem.