

Pointing a Big Dish to Echostar 9 at 121 W

Get Your Antenna Pointing Look Angles

For .98 meter antennas and larger, go to a site like www.dishpointer.com and enter the zip code or long/lat for your location. And Echostar 9 or Galaxy 23 in the satellite drop down menu.

Record the:

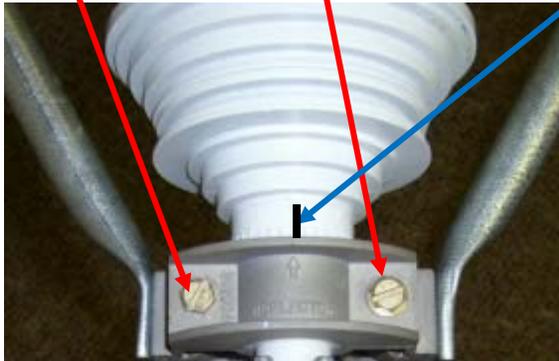
- Magnetic azimuth:
- Elevation:
- Polarity offset or polarization:

Setting the Antenna Polarity and Finding the Satellite

Step 1. Loosen the two nuts found on the top of the feed.

Step 2. Make a small mark with a fine tip pen or marker on the throat of the feedhorn so that it lines up with the arrow on the clamp. This is going to be a reference point, so you can go back to your original position if you have to.

Step 1 Loosen these two bolts. **Step 2** make a tick mark here.



Step 3. Rotate feed assembly so that the LNB is dead level at the 3 O'clock or 9 O'clock position. Once you are sure it is perfectly level place an inclinometer on the long flat side of the transmitter as shown below in Figure 2 so that the inclinometer reads zero.

Step 4. Now rotate the required number of degrees as indicated by the www.dishpointer.com site for your polarization angle. If you use

Point Dish to get your numbers, subtract the value given for skew from 90, to get the number of degrees to rotate from level.

As you look at the dish from the view point of the satellite looking down at the dish, you are going to rotate counterclockwise if you are east of 121 degrees longitude and clockwise if you are west of 121 degrees longitude



Place the inclinometer on a flat smooth surface on the transmitter like here

- Step 5. Snug but do not totally tighten the two clamp bolts from Step 1.
- Step 6. Set the elevation scale at the back of the antenna to the indicated elevation that you recorded from www.dishpointer.com.
- Step 7. Start your sweeps side to side to try and find Echostar 9 with your meter. Go up or down in $\frac{1}{2}$ degree increments until you find the satellite.
- Step 8. You can also use the Nova modem's **Telemetry** display, if you do not have a satellite meter.
- Step 9. Carefully take the time to peak the signal.