



## Application Note

11/23/2009

### Installing a DIRECTV Phase III system with the Super Buddy™ satellite meter

**Connections:** DIRECTV Phase III LNBF connected to top (SIGNAL IN) port of Super Buddy meter with coax cable.

The DIRECTV Phase III LNBF was designed to receive signals from the 101°, 110°, and 119° satellites.

#### Meter set-up

Press the **SYST** System soft-key (located near top left corner of LCD screen) to enter the System Setup menu. Then select the following:

- REGION                      your geographic region
- SERVICE                     **DIRECTV**
- SYSTEM                     **Phase III / Sat-C**
- LNB MODEL                **(N/A)**
- SWITCH TYPE             defaults to **22 kHz**

*To make selections, arrow up or down to the item to change and press **Enter**, then arrow up or down to the desired option and press **Enter**. Press **EXIT** or **DONE** to return to Run Mode*

#### Antenna Pointing

Install the mast plumb, preset the antenna vertical angle and tilt/skew, mount to mast and grossly align azimuth. You may want to use the ZIP zip code look-up feature to obtain rough antenna settings (magnetic compass heading, elevation, and tilt/skew).

After completing the System Setup:

- 1) Press DONE or EXIT to return to the main Run screen.
- 2) Adjust the tilt or skew of the dish based on the parameters provided by the Super Buddy's zip code lookup feature (ZIP soft-key in lower left corner of main Run screen).
- 3) Connect a coax jumper cable from the top (Signal-In) port of your Super Buddy meter to a LNBF output port.

#### To find the 101° satellite:

- Press the LNB soft-key (located on middle right side of LCD screen) to apply power to the LNB. LNB1 is for the 101° satellite
- Adjust the azimuth and elevation of the dish to optimize the alignment by maximizing the signal level (left bar graph) and signal quality (right bar graph) on the 101 satellite. Align antenna until a LOCK status is obtained.
- After you see LOCK, press ID soft-key (located on middle left side of LCD screen) and verify that the 101 satellite has been found.

**To check the status of the 119° satellite:**

- Press the LNB soft-key again to switch to LNB2 (22 kHz). LNB2 is for the 110° & 119° satellites.
- Adjust the tilt/skew of the dish to optimize the alignment by maximizing the signal level (left bar graph) and signal quality (right bar graph) on the 119° satellite. Align antenna until a LOCK status is obtained.
- After you see LOCK, press ID soft-key (located on middle left side of LCD screen) and verify that the 119 satellite has been found.

Note: Transponders 22 through 32 of the 110/119 Combo come from the 119 satellite

**To check the status of the 110° satellite:**

- While still selected on LNB2, use your Up/Down arrow keys to scroll to transponders 8, 10, or 12 of the 110/119 Combo
- Check to make sure you have a LOCK status and a good signal level and C/N value
- Press ID and verify that the 110 satellite has been found

Note: Transponders 8, 10, and 12 of the 110/119 Combo come from the 110 satellite

**You may choose to use the PoP Scan function of the meter to record the measurements in the flash memory of the meter.** Please refer to the operations manual for more info and instructions related to the Proof of Performance scan feature.

**Other Notes:**

-It is NOT recommended to keep Super Buddy meter in line while checking receiver status due to attenuation from our circuitry.

Please ensure that you have the latest versions of North American Field Guide, Software, and USA Zip Codes loaded into your meter. If your meter has older versions loaded, please use the FlashUpdate program to update your meter, as described in the [Operations Manual](#).