**Application Note**
10/29/2015

# Installing Bell TV Dish Pro Twin system using the XR-3 satellite meter



**Connections:**  Coax cable connected from LNBF output port to the XR-3 satellite meter module's ODU / LNB port

**Meter Setup:**
Push the **SYST** System soft-key to select the following:
- REGION                 your geographic region
- SERVICE                **Bell TV**
- SYSTEM                 **Dish Pro**
- LNB MODEL         **DishPro Twin** or other as applicable if using an external multi-switch.
- SWITCH TYPE        defaults to **DpTwin** (assuming you'll be connected directly from meter to LNB)

*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*

**Azimuth/Elevation Lookup:**
Push the **AZ/EL** soft key (lower left corner of main run screen), use the numeric keypad to enter the Postal Code for your current location, and press the **ENTER** key.  Press **EXIT** to return to Run Mode.

**Antenna Pointing**
Install the mast (pole) plumb, preset the antenna reflector's vertical angle (elevation setting) and Skew setting, mount antenna reflector to mast, and grossly align azimuth (using magnetic compass according to 'Magnetic' coordinates shown in AZ/EL screen on meter).  You may want to use the AZ/EL look-up feature to obtain rough antenna reflector settings based on your postal code or latitude and longitude.

**Run Mode:**
- Press **LNB** soft-key (located on middle right side of LCD screen) once to power the LNB and go to LNB1 (91°W).  The satellite orbital position will be shown in upper left corner of LCD screen.
- Adjust antenna reflector azimuth (left or right) and elevation (up or down) to obtain maximum signal level (left bar graph), signal quality (right bar graph), and LOCK status.
- Press the **ID** soft-key (located on middle left side of LCD screen) to verify that you're aligned to the 91°W satellite.  "ID VERIFIED" means you are pointed correctly.
- If "ID FAILED" is displayed, press **SCAN** soft-key and the XR-3 will find which satellite you are aimed at.
- If desired, you may also use Up/Down arrow keys to scroll through other transponders to check for proper level and quality.

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- Press **LNB** soft-key (located on middle right side of LCD screen) again to toggle to LNB2 (82°W). The satellite orbital position will be shown in upper left corner of LCD screen.
- Adjust the Skew of the dish (Rotate the antenna reflector clockwise or counter-clockwise to maximize signal level and quality).
- Press the ID soft-key to verify that you're aligned to the 82°W satellite. "ID VERIFIED" means you are pointed correctly.
- If desired, you may also use Up/Down arrow keys to scroll through other transponders to check for proper level and quality.

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

Notes:
- It is NOT recommended to keep the XR-3 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, Dish Limit values, and Postal 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.

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