

## Application Note

4/28/2014



# Installing a Dish Network FSS Single System (aimed at 118.7°W Anik F3 satellite) using the AI Turbo S2 Satellite Meter



**Description:** The Dish 118.7 LNB head contains both a standard Dish Pro DBS LNB for the 119W slot and a circular polarity FSS LNB for the 118.7W Anik F3. Each LNB exits the head with its own port.

**Connections:** Connect a coax cable from port (1F) of the LNB connected to ODU / LNB port of AI Turbo S2 meter.

### 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                 **Dish Network**
- SYSTEM                 **FSS Single**
- LNB MODEL             **FSS 118.7**
- SWITCH TYPE         defaults to **none**

*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:

Press 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 zip code or latitude and longitude.



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### Run Mode:

- Connect a coax jumper cable from the ODU / LNB port of your AI Turbo S2 meter to the LNBF output port labeled 1F.
- Press **LNB** soft-key (located on middle right side of LCD screen) once to power the LNB (118.7°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 118.7°W satellite. "ID VERIFIED" means you are pointed correctly.
- If "ID FAILED" is displayed, press **SCAN** soft-key and the AI Turbo S2 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.

### Limit Scan:

*This step may be done for each satellite.*

- Press the **MENU** soft key.
- Press the **LIM SCAN** soft key or scroll and highlight **Limit Scan** and press **Enter**.
- Press the **EDIT** soft key then press the **USE ZIP** soft key.
- Press **DONE** to perform limit scan.
- Review results or save them in meter for future use.

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

### Notes:

- It is NOT recommended to keep the AI Turbo S2 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.

