

Application Note

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How to install a Universal LNB system with a Super Buddy™



A “Universal” LNB is a generic type of LNB designed to cover most of the Ku band. It is used widely in Europe and more infrequently in North America. It uses a 22 kHz tone to select between two local oscillators (LOs) inside the LNB:

22 kHz	LO freq	Ku Freq range
OFF	9.75 GHz	10.7 to 11.7 GHz
ON	10.6 GHz	11.7 to 12.75 GHz

13 or 18 volts on the cable select vertical (VT) or horizontal (HZ) polarization. The Super Buddy **automatically** supplies the 22 kHz tone if necessary, thereby selecting the correct LO for each transponder.

Meter Setup:

Push the **SYST** System soft-key to select the following:

- REGION your geographic region
- SERVICE **Generic Ku Band**
- SYSTEM **Universal**
- LNB MODEL **(N/A)**
- SWITCH TYPE **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

Dish Setup:

Push the **ZIP** soft-key to bring up the zip or postal code lookup screen.

- Use the numeric keypad to type your zip code and then press the Enter button. If in the U.S., enter the zip code for your location. In Canada, enter the postal code. If located outside of North America, type in the latitude and longitude of your location and then press the Enter button. Press EXIT to return to the main Run screen.
- Use the left/right arrow keys to select the desired satellite.
- Note the magnetic (compass), elevation and polarization offset numbers displayed.
- Pre-set the dish’s elevation to the given elevation angle.
- Pre-set the LNB polarization offset to the given offset.

Run Mode:

- Press the LNB power soft-key (middle right side of LCD screen) to power the LNB.
- Use the left/right arrow keys to select the desired satellite.
- Align the antenna and adjust the azimuth, elevation, and polarization offset to obtain a strong signal level (left bar graph), LOCK and best signal quality (right bar graph) value.
- Press the **ID** soft-key to verify the satellite. "ID VERIFIED" means you are pointed correctly.
- If ID fails, press **SCAN** soft-key and Super Buddy will find which satellite you are aimed at.
- Use Up/Down arrows to scroll through transponders to check for proper level and quality.

As you scroll through satellites or transponders, the LNB soft-key may change from “LNB ON” to “LNB 22K”. This indicates whether the 22 kHz tone is being used or not and hence which LO and which frequency band is selected. You do not need to be concerned about this display change since Super Buddy will select whichever one is needed to pull in the selected transponder.