



### Flip/Flop

Press the **FLIP/FLOP** button to switch between the active (left-most) and standby (right-most) frequency. Switching between Com frequencies is disabled while you are transmitting.

### Com

Press **COM** to select the Com radio mode. The annunciator will light above the button when you are in Com mode. Press **COM** a second time to monitor the Standby frequency. See the Advanced Operation section for more about monitoring frequencies.

### NAV

Press **NAV** to select the Nav radio mode. The annunciator above the button will light when you are in Nav mode. Press **NAV** a second time to monitor the Standby frequency. See the Advanced Operation section for more about monitoring frequencies.

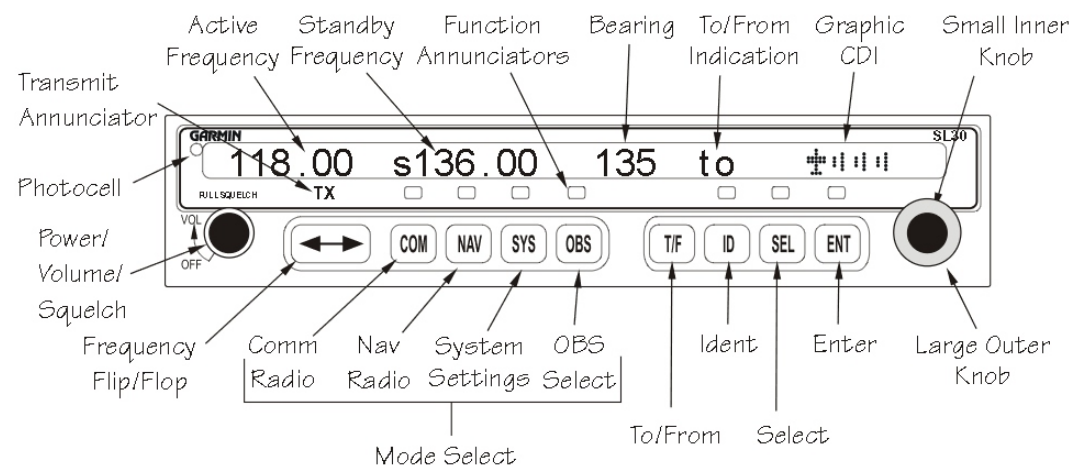
### SYS

Press **SYS** to reach the System mode. The annunciator above the button will light when you are in the System mode.

### OBS

Press **OBS** to see the current OBS setting and graphic CDI. If the annunciator above the **OBS** button lights, you may use the **LARGE** and **SMALL** knobs to change the displayed OBS values.

If your system is configured with an external CDI/HSI, the OBS radial of your remote display will be decoded and displayed on the screen of the SL30.



### T/F

Press **T/F** to toggle between the bearing TO or radial FROM the active VOR. The **T/F** button does not operate for Localizer frequencies.



### ID

Press **ID** to select the Nav audio and toggle between VOICE or IDENT. Pressing **ID** will cancel the VOR monitor function. Selecting the monitor function will suspend the ID function until the monitor function is disabled.



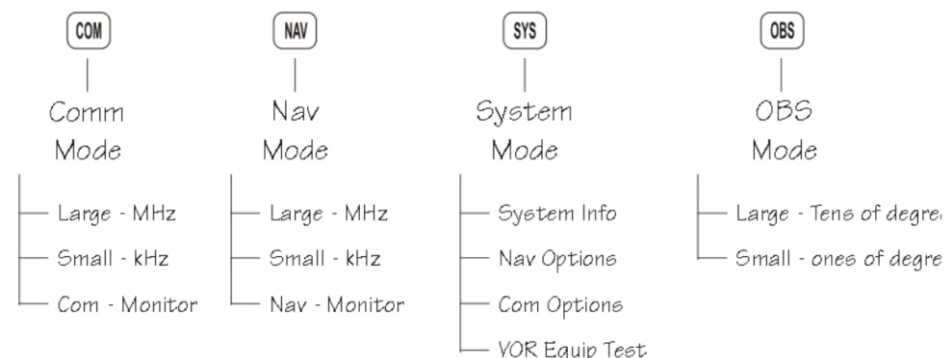
### SEL

Press **SEL** to choose from a list of channel types or to change values. In Com or Nav modes, press **SEL** to choose frequencies from the available lists. Press **SEL** again if you want to cancel the selection process. The annunciator will light above the button when this function is active.



### ENT

Press **ENT** to save selected values, to confirm a prompt, or to save the Standby frequency.



## Com Radio Mode

### **Monitoring the Standby Com Channel**

The Frequency Monitoring function allows you to monitor the Standby frequency for activity, while listening to the Active frequency.

Press the **COM** key in the Com function to listen to the standby frequency. A small "m" will replace the "s" in front of the Standby frequency.

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When the Active frequency receives a signal, the unit will switch automatically to the Active frequency. The Active frequency quality is not affected. The Frequency Monitor function is turned off when you flip/flop frequencies, recall a frequency, or press **COM** again. Monitoring is not canceled by switching to Nav mode.

### **Monitoring the Standby Nav channel**

The Nav radio provides a monitor function for VORs as the standby channel similar to the Com radio. The monitor function is activated or deactivated by pressing the **NAV** button while in the Nav function. The From radial for the standby channel is shown in parentheses when the VOR monitor mode is activated. This replaces the station identifier, OBS course, or VOR/LOC indicator. A small "m" will replace the "s" in front of the Standby frequency. The Standby VOR radial is updated once per second. You cannot monitor a Localizer channel.

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If no signal can be tracked on the standby channel, then it will be dashed out.

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The VOR Monitor function is turned off when you flip/flop frequencies, recall a frequency, or press **NAV** again. Monitoring is not canceled by switching to Com.

### **Using the Standby Channel to Monitor a Second VOR**

You can use the monitor function of the Standby channel as if it were a second Nav receiver. This is useful to check for crossing points on the course you are navigating along. The two following examples show how to monitor the second channel. You can use these examples to develop your own solutions for other in-flight navigation needs.

## OBS Mode

### **OBS Operation**

OBS mode enables the VOR CDI which is displayed on the right side. The OBS course setting is shown in the center of the display. The **OBS** button is used to select this mode. If OBS mode is allowed in the unit's installed configuration, the annunciator over the **OBS** button will light. The knobs adjust the OBS setting in this mode rather than the frequencies. The **LARGE** knob adjusts the course by tens (00-35 in higher digits). The **SMALL** knob adjusts single degrees.

### **OBS Direct-To**

You can navigate Direct-To a VOR. In Nav mode with a VOR as the Active frequency, press **OBS** twice. The CDI will now center in the TO condition.

## Listening to the Audio channel

The audio for the active Nav channel is toggled between modes using the **ID** button. The annunciator above the button will light while Nav audio is activated, and the detected audio signal will be sent to the Nav audio output circuit. Nav audio may also be mixed with the Com audio output, if selected in the System mode. When you are monitoring a VOR, Nav audio is suspended.

There are three modes for the Nav audio. Press the **ID** button to start the ID mode. "IDENT" will be displayed for three seconds. The Morse code tones sent over the VOR/Localizer channels will be heard.

If the **ID** button is pressed a second time. "VOICE" will be displayed for three seconds. The Morse code tone volume will be reduced so you can hear the voice transmission more clearly.

Press **ID** again to turn the audio and ID annunciator off.

The last audio output selection is kept in memory until you change it, even when the SL30 is powered off. Using this feature, you may leave the audio enabled and then control it by an external audio panel.

## Automatic Morse Code Decode/Display

The Morse code identifier will not be available until two messages have been successfully received, which may take from 15-60 seconds depending on conditions. When no voice is present on the station, the Morse code identifier is decoded correctly at least 99.5% of the time. If the station is transmitting voice along with the Morse Code identifier, the probability of the SL30 to decode the identifier drops to 95%. Voice or poor reception (such as the station is far away) may delay or inhibit the automatic decode function.

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The **T/F** button selects the To or From radial display. If the VOR radial display is not currently shown, press **T/F** to show the radial display. When the VOR radial is displayed, pressing **T/F** will toggle between the Bearing To and Radial From the VOR. This button is not functional if a localizer frequency is selected on the active channel.