



**TERRAIN**  
**CAUTION**—Estimated potential impact in approximately 30 seconds after pop-up alert and annunciation. FLTA caution alerts are accompanied by the aural message "Caution Terrain; Caution Terrain" OR "Terrain Ahead; Terrain Ahead". Similarly, a "Caution Obstacle; Caution Obstacle" or "Obstacle Ahead; Obstacle Ahead" alert is also provided.



**PULL UP**  
**WARNING**— Estimated potential impact in approximately 15 seconds after alert and annunciation. FLTA warning alerts are accompanied by the aural message "Terrain, Terrain; Pull Up, Pull Up" or "Terrain Ahead, Pull Up; Terrain Ahead, Pull Up". Similarly, a "Obstacle, Obstacle; Pull Up, Pull Up" or "Obstacle Ahead, Pull Up; Obstacle Ahead, Pull Up" alert is also provided.

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## GNS 400W/500W Series SW v3.00 Upgrade Supplement

This supplement provides information for new features of the software upgrade v3.00 for 400W/500W Series units.

The following documents were revised to Revision B to include information for new features of the software upgrade v3.00 for 400W/500W Series units (refer to Service Bulletin 0740):

- 400W Series Pilot's Guide & Reference P/N 190-00356-00
- 500W Series Pilot's Guide & Reference P/N 190-00357-00
- 400W/500W Series Optional Displays P/N 190-00356-30
- 400W/500W Series Display Interfaces P/N 190-00356-31

The combination of the listed documents at revision A and this supplement, P/N 190-00356-32 are equivalent to Revision B of documents listed above, as required in the AFMS.

### 400W & 500W Series Pilot's Guide & Reference Com Remote Frequency Selection Control

V3.00 software allows the pilot to use a remote source to store and tune up to 15 radio channels. (Remote Frequency Selection only functions on units configured for a remote Com Frequency recall switch.)

#### Setup –

1. Select "COM Configuration" on the Setup 1 Page, located in the AUX Page Group.
2. The flashing cursor will highlight the Channel Spacing field. Turn the **large right** knob to navigate from one frequency to the next. Turn the **small right** knob to the desired frequency.
3. Press the **small right** knob when finished.

On units configured for remote Com frequency recall, pressing the remote recall switch will load the next preset Com frequency into the unit's Standby frequency box and the unit will then display a temporary pop-up window with the current Preset number. The remote recall switch can be pressed multiple times to scroll the entire preset frequency list through the Standby frequency box (the list will "wrap" from the bottom of the list back up to the top, skipping any empty preset positions). The standby frequency isn't activated until a Com flip flop switch (either remote- or bezel-mounted) is pressed.

**Approach Annunciation Table** –The annunciation description for LOW ALT has changed.

Annunciation	Description
LOW ALT (lower window)	For LNAV+V, LNAV/VNAV, or LPV approaches, the LOW ALT annunciation indicates the aircraft's estimated height is lower than the Final Approach Waypoint height by more than the current VPL plus 50 meters. This annunciation will not be active when TAWS is operating on units equipped with TAWS.

**400W/500W Series Optional Displays Pilot's Guide Addendum**  
**XM Weather**

The XM Weather Function is capable of displaying graphical weather information through the XM Satellite Radio Service when activated in the optional installation of the GDL69/69A. Software Upgrade v3.00 adds capability to display three new weather products: Lightning (LTNG), Cell Movement (CELL MOVE) and Winds Aloft, all of which are displayed on the NAV pages of the 400W/500W Series Units.

**Lightning (LTNG)**

When enabled, lightning strikes and cells are shown. Lightning information indicates the location of cloud-to-ground lightning strikes noted by yellow plus (+) signs.

**To view XM Weather Lightning Strikes:** while viewing the XM Weather page, verify "LTNG" is displayed in the upper left corner. If "LTNG" is not displayed, press the **small right** knob to highlight the displayed field and then turn the **small right** knob to change the field to "LTNG". Press the **small right** knob again to stop highlighting the field.

**Cell Movement (CELL MOVE)** shows the storm cells identified by the ground-based system. The movement is depicted by an arrow. The tip of the arrow represents where the cell is expected to be in 10 minutes from the time the cell location was determined.

**To view XM Weather Cell Movement:** while viewing the XM Weather page, verify "CELL MOVE" is displayed in the upper left corner. If "CELL MOVE" is not displayed, press the **small right** knob to highlight the displayed field and then turn the **small right** knob to change the field to "CELL MOVE". Press the **small right** knob again to stop highlighting the field.

**To view XM Weather Cell Movement details:** while viewing the XM Weather page with Cell Movement active:

1. Press the **MENU** key to highlight "Show Map Pointer."
2. Press **ENT** to activate the Map Pointer.
3. Turn the **large right** knob to move the cursor left and right. Turn the **small right** knob to move the cursor up and down. Move the cursor into the Cell Movement symbol to view details about the Cell.

**Winds Aloft** provides the pilot with a graphic display of predicted winds at any one of 15 selectable altitudes. The display includes:

- Wind bars, representing wind speed, and direction
- The selected altitude
- The effective time for the prediction

Winds Aloft predictions are updated every hour and can be downloaded at any time via the GDL 69/69A. The selected altitude is shown along with the product effective time.

Winds Aloft are represented by meteorological symbols known as "wind barsbs." A wind barb consists of an arrow-like line that indicates the direction in which the wind is blowing, with marks ("barbs") along one side of the line to indicate wind speed. The barbed end of the symbol points in the direction from which the wind is coming. Barbs, which are used singly and in combinations, have the following values:

- A short line: 5 knots
- A long line: 10 knots
- A pennant (triangle): 50 knots

**To view XM Weather Winds Aloft:** while viewing the XM Weather page, verify "WINDS" is displayed in the upper left corner. If "WINDS" is not displayed, press the **small right** knob to highlight the displayed field and then turn the **small right** knob to change the field to "WINDS". Press the **small right** knob again to stop highlighting the field.

**To change the altitude for Winds Aloft:** Turn the **large right** knob to move the cursor down to the Altitude field, then use the **small right** knob to select an altitude from ground level up to 42,000 feet (in 3,000-foot increments).

**TAWS** - units equipped with TAWS have been enhanced with software v3.00. These enhancements reduce the amount of TAWS nuisance alerts but do not change the operating characteristics to the pilot in any significant manner. The following Forward Looking Terrain Alerting Caution and Warnings should be adhered to when displayed: