

GDU™ 37X

Multi Function Display
Quick Reference Guide



GARMIN ▲

OVERVIEW

GPS NAVIGATION

FLIGHT PLANNING

HAZARD AVOIDANCE

ADDITIONAL FEATURES

APPENDICES

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This manual reflects the operation of System Software version 007.00 or later. Some differences in operation may be observed when comparing the information in this manual to earlier or later software versions.

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WARNING: Navigation and terrain separation must NOT be predicated upon the use of the terrain function. The GDU 37X Terrain Proximity feature is NOT intended to be used as a primary reference for terrain avoidance and does not relieve the pilot from the responsibility of being aware of surroundings during flight. The Terrain Proximity feature is only to be used as an aid for terrain avoidance and is not certified for use in applications requiring a certified terrain awareness system. Terrain data is obtained from third party sources. Garmin is not able to independently verify the accuracy of the terrain data.



WARNING: The displayed minimum safe altitudes (MSAs) are only advisory in nature and should not be relied upon as the sole source of obstacle and terrain avoidance information. Always refer to current aeronautical charts for appropriate minimum clearance altitudes.



WARNING: The altitude calculated by GDU 37X receivers is geometric height above Mean Sea Level and could vary significantly from the altitude displayed by pressure altimeters. Always use pressure altitude when determining or selecting aircraft altitude.



WARNING: Do not use outdated database information. Databases used in the GDU 37X must be updated regularly in order to ensure that the information remains current. Pilots using any outdated database do so entirely at their own risk.



WARNING: Do not use basemap (land and water data) information for primary navigation. Basemap data is intended only to supplement other approved navigation data sources and should be considered as an aid to enhance situational awareness.



WARNING: Do not rely solely upon the display of traffic information for collision avoidance maneuvering. The traffic display does not provide collision avoidance resolution advisories and does not under any circumstances or conditions relieve the pilot's responsibility to see and avoid other aircraft.



WARNING: Do not rely solely upon the display of traffic information to accurately depict all of the traffic within range of the aircraft. Due to lack of equipment, poor signal reception, and/or inaccurate information from aircraft or ground stations, traffic may be present that is not represented on the display.



WARNING: Do not use data link weather information for maneuvering in, near, or around areas of hazardous weather. Information contained with in data link weather products may not accurately depict current weather conditions.



WARNING: Do not use the indicated data link weather product age to determine the age of the weather information shown by the data link weather product. Due to time delays inherent in gathering and processing weather data for data link transmission, the weather information shown by the data link weather product may be significantly older than the indicated weather product age.



WARNING: The Garmin GDU 37X has a very high degree of functional integrity. However, the pilot must recognize that providing monitoring and/or self-test capability for all conceivable system failures is not practical. Although unlikely, it may be possible for erroneous operation to occur without a fault indication shown by the GDU 37X. It is thus the responsibility of the pilot to detect such an occurrence by means of cross-checking with all redundant or correlated information available in the cockpit.



WARNING: The United States government operates the Global Positioning System and is solely responsible for its accuracy and maintenance. The GPS system is subject to changes which could affect the accuracy and performance of all GPS equipment. Portions of the Garmin GDU 37X utilize GPS as a precision electronic NAVigation AID (NAVAID). Therefore, as with all NAVAIDs, information presented by the GDU 37X can be misused or misinterpreted and, therefore, become unsafe.



WARNING: To reduce the risk of unsafe operation, carefully review and understand all aspects of the GDU 37X Pilot's Guide documentation and the Pilot's Operating Handbook of the aircraft. Thoroughly practice basic operation prior to actual use. During flight operations, carefully compare indications from the GDU 37X to all available navigation sources, including the information from other NAVAIDs, visual sightings, charts, etc. For safety purposes, always resolve any discrepancies before continuing navigation.



WARNING: For safety reasons, GDU 37X operational procedures must be learned on the ground.



WARNING: The indicators represented on the Panel are based on GPS-derived data and may differ from the instruments in the aircraft.



WARNING: The data contained in the terrain and obstacle databases comes from government agencies. Garmin accurately processes and cross-validates the data, but cannot guarantee the accuracy and completeness of the data.



CAUTION: The display uses a lens coated with a special anti-reflective coating that is very sensitive to skin oils, waxes, and abrasive cleaners. **CLEANERS CONTAINING AMMONIA WILL HARM THE ANTI-REFLECTIVE COATING.** It is very important to clean the lens using a clean, lint-free cloth and an eyeglass lens cleaner that is specified as safe for anti-reflective coatings.



CAUTION: The Garmin GDU 37X does not contain any user-serviceable parts. Repairs should only be made by an authorized Garmin service center. Unauthorized repairs or modifications could void both the warranty and the pilot's authority to operate this device under FAA/FCC regulations.



NOTE: All visual depictions contained within this document, including screen images of the GDU 37X, are subject to change and may not reflect the most current GDU 37X system and aviation databases. Depictions of equipment may differ slightly from the actual equipment.



NOTE: This product, its packaging, and its components contain chemicals known to the State of California to cause cancer, birth defects, or reproductive harm. This notice is being provided in accordance with California's Proposition 65. If you have any questions or would like additional information, please refer to our web site at www.garmin.com/prop65.



NOTE: Use of polarized eyewear may cause the flight displays to appear dim or blank.



NOTE: Temporary Flight Restriction (TFR) data is provided by the FAA and may not be updated outside of normal business hours. Confirm data currency through alternate sources and contact your local FSS for interpretation of TFR data.



NOTE: The purpose of this Quick Reference Guide is to provide a resource with which to find operating instructions on the major features of the GDU 37X more easily. It is not intended to be a comprehensive operating guide. Complete operating procedures for the GDU 37X are found in the Pilot's Guide.

Part Number	Change Summary
190-01054-00	Initial release

Rev	Date	Description
A	December, 2008	Production Release
B	June, 2009	<p>System Software Version 2.10-2.20 changes:</p> <ul style="list-style-type: none"> • Added display of plain-language PIREP text • Added menu option to main menu display setup page to allow recording screenshots to the SD card • Added menu option to display lat/lon position on Info page when system-wide position format is set to other than lat/lon • Added ability to display parachute jumping area airspace • Added ability to display park areas from detail maps • Added additional version information to Database Information page • Added support for sea surface temperature weather data (requires Master Mariner XM subscription)
C	March, 2012	<p>System Software Version 2.20-2.30:</p> <ul style="list-style-type: none"> • Added sound setup page to main menu and changed message tone volume to be user-controllable. • Added map setup item to control size of road name text. • Added audio feedback when changing alert volume level. <p>System Software Version 2.30-2.40:</p> <ul style="list-style-type: none"> • Added advisory message to indicate when GDU is in demo mode. • Added ability to configure default backlight mode. • Added display of alternate UTC time offset value when reviewing an airport that observes daylight saving time. <p>System Software Version 2.40-2.50:</p> <ul style="list-style-type: none"> • Added Units setup page to main menu when in normal mode <p>System Software Version 2.50-2.60:</p> <ul style="list-style-type: none"> • Added warning text to weight and balance page

Rev	Date	Description
C	March, 2012	<p>System Software Version 2.60-2.70:</p> <ul style="list-style-type: none"> Added menu option to XM page to allow selection of a specific channel number. <p>System Software Version 3.00-3.10:</p> <ul style="list-style-type: none"> Added ability to import/export flight plans using the SD card Added Softkeys to Nearest Airports Page to quickly show/hide private airports and heliports <p>System Software Version 3.10-3.20:</p> <ul style="list-style-type: none"> Added ability to display checklist files from SD card. Added ability to log data to SD card. Added ability to export track log and user waypoints to SD card. <p>System Software Version 3.20-4.00:</p> <ul style="list-style-type: none"> Added support for Jeppesen ChartView and geo-referenced FliteCharts Added ability to use VNAV when using an external GPS navigation Source Added Softkey to Terrain Page to quickly enabled/disable terrain alerts Changed screenshot utility to flash the screen to indicate when a screenshot has been saved. <p>System Software Version 4.00-4.10:</p> <ul style="list-style-type: none"> Added support for displaying flight time in data bar. <p>System Software Version 4.10-5.00:</p> <ul style="list-style-type: none"> Added display of displaced runway threshold distance to airport review page. Added menu options to the WPT page to quickly view the departure airport and destination airport. Added menu option and softkey to the FPL VNAV page to force a capture of the VNAV profile. Added SiriusXM warning text. <p>System Software Version 6.10-6.20:</p> <ul style="list-style-type: none"> Added ability to switch between internal and external GPS flight plan source, to allow navigation and flight plan entry using GDU interface while configured to receive data from an external GPS navigator. Added optional dedicated Traffic page. Added softkey to map page to enable/disable traffic display. Added ability to enable/disable 'traffic not available' audio alert. Added softkey to Terrain page to quickly access terrain alerting settings.

Rev	Date	Description
C	March, 2012	<p>System Software Version 6.20-6.30:</p> <ul style="list-style-type: none"> • Added ability to configure the initial MFD page that is displayed after powerup, using the Display Setup page. • Added configurable data fields to display current climb gradient in percent or altitude gain per nautical mile. • Added runway number labels to runway extension lines on map. • Added items to Map Setup page to adjust visibility of water labels, park and land cover areas, runway numbers, and runway extension lines. • Changed screenshot utility to be activated when Menu key is pressed and held.
D	August, 2012	<p>System Software Version 6.30-7.00:</p> <ul style="list-style-type: none"> • Added GDL39 Support

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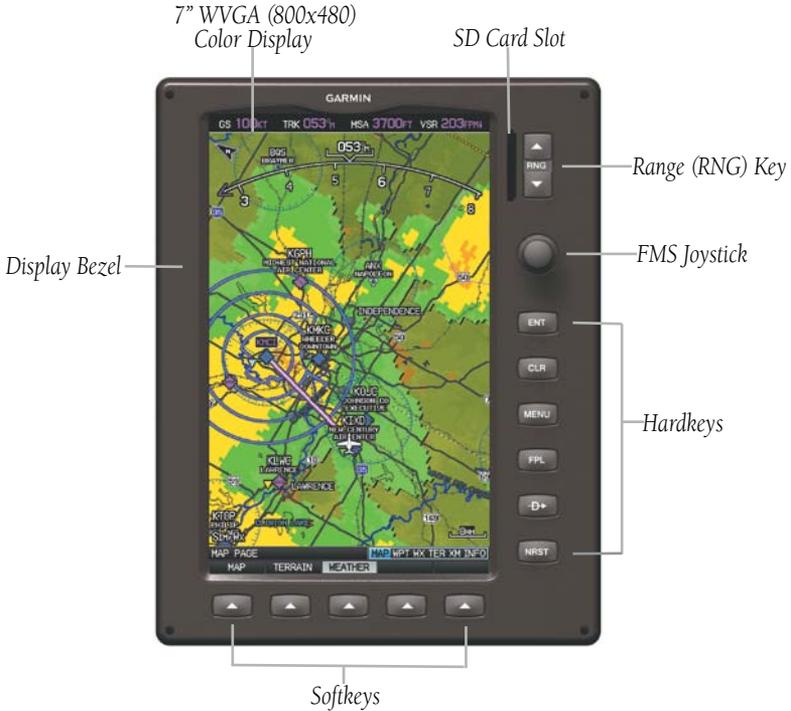
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SECTION 1 OVERVIEW

1.1 UNIT OVERVIEW

The purpose of this document is to provide a resource with which to find operating instructions on the major features of the GDU 37X more easily. This Quick Reference Guide is not intended to be a comprehensive operating guide. Refer to the GDU 37X Pilot's Guide and the GDU 37X Installation Manual (available at www.garmin.com) for complete operating and installation procedures.



Unit Overview

EXTERNAL NAVIGATOR (OPTIONAL)

The GDU 37X can also communicate with the following optional external navigators:

- GTN Series Units
- GNS Series Units

USING THE GDU 37X WITH AN EXTERNAL GPS NAVIGATOR



WARNING: Do not use the approach information provided by the VFR navigation database residing within the GDU 37X for navigating any instrument approach. The GDU 37X VFR navigation database is limited to present only the waypoints for the final approach leg of a published procedure. These waypoints and associated course line are made available for monitoring purposes only.

In a configuration which includes an external GPS navigator (i.e., GTN or GNS Series), the GDU 37X displays the external GPS Navigator's flight plan and guidance information. When using an external GPS navigator with the GDU 37X, press the **INTERNAL** Softkey on the Active Flight Plan Page or Direct-To Page to make changes to the active flight plan from the GDU 37X. Press the **EXTERNAL** Softkey to return to the external GPS navigator's flight plan.



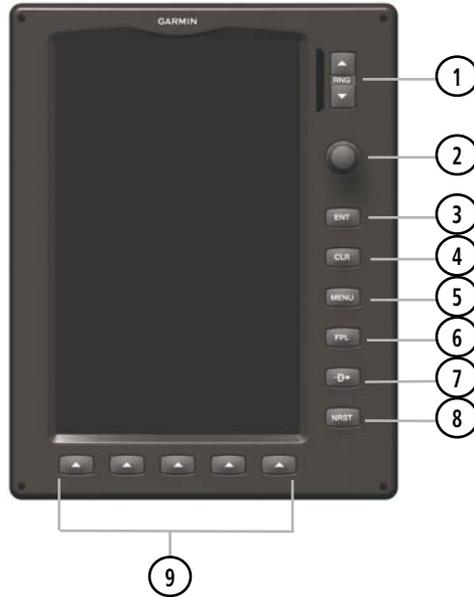
NOTE: The GDU 37X internal GPS flight plan is only for VFR use.

USING MAPMX SERIAL DATA INPUT FORMAT

When using a WAAS enabled external GPS navigator (i.e., GNS 430W/530W), and configuring an RS-232 input for 'MapMX' instead of 'Aviation In', a more accurate depiction of the flight plan legs are displayed on the moving map (i.e., holds, procedure turns, etc). Non-WAAS external navigators do not support MapMX. Refer to the GDU 37X Installation Manual for more information.

EXTERNAL GPS NAVIGATOR FAILURE

In the event that the external GPS navigator fails, the GDU 37X reverts to its internal VFR GPS for navigation and flight plan modification.



GDU 37X Controls

- ① **RNG Key** Press to increase or decrease the viewing range of the map
- ② **FMS Joystick** Press the **FMS** Joystick to toggle input focus between user interaction with the current page and the page navigation bar
 Turn the **FMS** Joystick clockwise to access a dropdown menu within the highlighted field
 Turn the **FMS** Joystick to change the selected value within the highlighted field
 Move the **FMS** Joystick to highlight fields or move the map pointer when interacting with the page
- ③ **ENT Key** Press to confirm menu selection or data entry
 Press to acknowledge messages
 Press and hold to mark a waypoint
- ④ **CLR Key** Press to cancel an entry, revert to the previous value in a data entry field or remove menus
 Press and hold to return to the default page

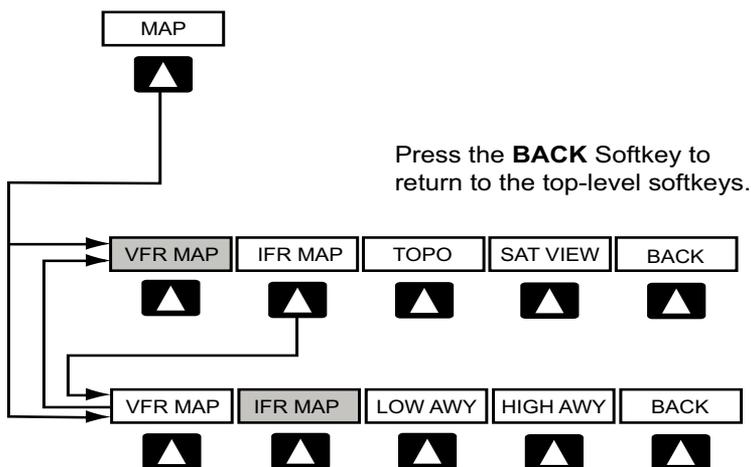
- 5 **MENU Key** Press once to view the Page Menu
Press twice to view the Main Menu
Press a third time to clear the Main Menu
- 6 **FPL Key** Press to display the Flight Plan Page
- 7 **Direct-To Key** Press to activate the Direct-To function, enter a destination waypoint and establish a direct course to the selected destination
- 8 **NRST Key** Press to display the Nearest Page for viewing the nearest airports, intersections, NDBs, VORs, waypoints, frequencies, and airspaces
- 9 **Softkey Selection Keys** Press to select softkey shown above the bezel key on the display

1.2 SOFTKEYS

MAP PAGE SOFTKEYS



MAP	Enables second-level Map Page softkeys
TERRAIN	Displays/removes terrain awareness information
WEATHER	Displays/removes weather information (optional)
TRAFFIC	Displays/removes traffic information
PANEL	Displays/removes the Panel



VFR MAP Softkey selected

- IFR MAP Displays IFR map information and softkeys
- TOPO Displays/removes topographical terrain shading
- SAT VIEW Displays/removes satellite imagery (above 20nm scale)
- BACK Returns to top-level softkeys

IFR MAP Softkey selected

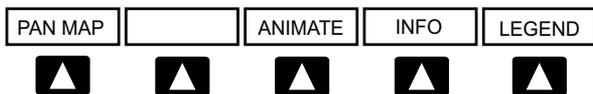
- VFR MAP Displays VFR map information and softkeys
- LOW AWY Low Altitude (Victor) Airways displayed
- HIGH AWY High Altitude Airways (Jet Routes) displayed
- BACK Returns to top-level softkeys

WAYPOINT PAGE SOFTKEYS



- INFO Displays waypoint information
- CHART Displays chart data (i.e., FliteCharts® or ChartView)
- AOPA or DIRECTORY Displays airport directory information
- WEATHER Displays METAR and TAF text (optional)

WEATHER PAGE SOFTKEYS (OPTIONAL)



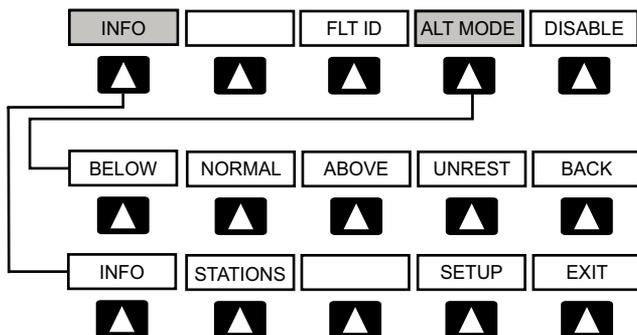
- PAN MAP Activates the map pointer for panning the map
- ANIMATE Animates NEXRAD weather
- INFO Displays XM Information
- LEGEND Displays weather legends

TERRAIN PAGE SOFTKEYS



- SETTINGS Displays the Terrain Setup Page
- DISABLE Toggles terrain alerts on/off.

TRAFFIC PAGE SOFTKEYS (OPTIONAL GDL 39)



- INFO Select to view Data Link and Weather info
- FLT ID Displays FLT ID information.
- ALT MODE Select to set altitude mode.

DISABLE Temporarily disables traffic alerts

ALT MODE Softkey selected

BELOW Displays non-threat and proximity traffic from 2700 feet above the aircraft to 9000 feet below the aircraft. Typically used during descent phase of flight.

NORMAL Displays non-threat and proximity traffic from 2700 feet above the aircraft to 2700 feet below the aircraft. Typically used during enroute phase of flight.

ABOVE Displays non-threat and proximity traffic from 9000 feet above the aircraft to 2700 feet above the aircraft. Typically used during enroute phase of flight.

UNREST (Unrestricted): All traffic is displayed from 9900 feet above and 9900 feet below the aircraft.

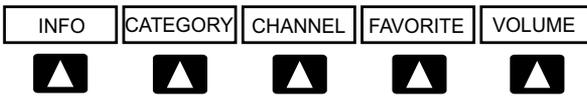
INFO Softkey selected

Stations Displays ADS-B ground station(s) information.

SETUP Select to set pressure altitude sensor on or off in the GDL 39.

EXIT Returns to the Traffic Page.

XM AUDIO PAGE SOFTKEYS (OPTIONAL)



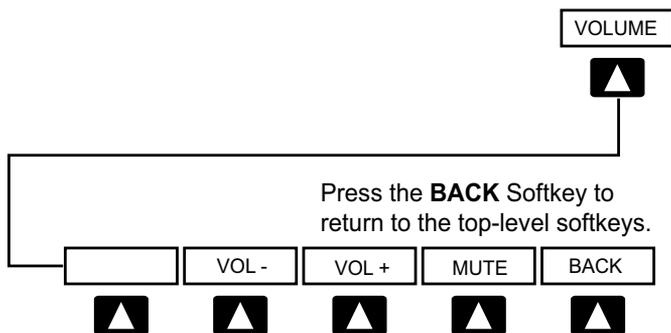
INFO Displays XM Information

CATEGORY Highlights the Category field

CHANNEL Highlights the Channels field

FAVORITE Displays a list of favorite channels

VOLUME Enables second-level VOLUME softkeys. Press and hold to toggle Mute on and off.



- VOL - Decreases XM audio volume
- VOL + Increases XM audio volume
- MUTE Toggles XM audio on/off
- BACK Returns to top-level softkeys

INFO PAGE SOFTKEY



- MESSAGES Displays system status messages

1.3 MENUS

Navigating the Page Menu:

- 1) Press the **MENU** Key once to display the Page Menu.
- 2) Turn or move the **FMS** Joystick to scroll through a list of available options (a scroll bar always appears to the right of the window/box when the option list is longer than the window/box).
- 3) Press the **ENT** Key to select the desired option.
- 4) Press the **FMS** Joystick, the **CLR** Key, or the **MENU** Key twice to remove the menu and cancel the operation.

Navigating the Main Menu:

- 1) Press the **MENU** Key twice to display the Main Menu.
- 2) Turn or move the **FMS** Joystick to scroll through a list of available options (a scroll bar always appears to the right of the window/box when the option list is longer than the window/box).
- 3) Press the **ENT** Key to select the desired option.
- 4) Press the **FMS** Joystick, the **CLR** Key, the **EXIT** Softkey, or the **MENU** Key to remove the menu and cancel the operation.

1.4 DATA ENTRY

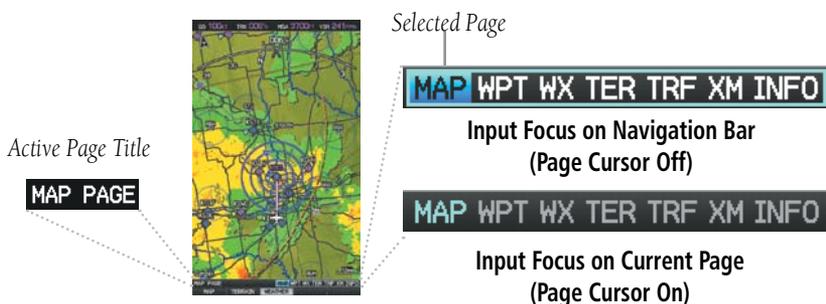
Using the FMS Joystick to enter data:

- 1) Press the **FMS** Joystick to activate the cursor.
- 2) Move the **FMS** Joystick to highlight the desired field.
- 3) Begin entering data.
 - a) To quickly enter a waypoint identifier, turn the **FMS** Joystick counter-clockwise to display a list of recent waypoints (RECENT WPTS), nearest airports (NRST APTS) or flight plan waypoints (FPL WPTS).
 - b) Move the **FMS** Joystick to highlight the desired waypoint from the list and press the **ENT** Key.

Or:

 - a) Turn the **FMS** Joystick to select a character for the first placeholder. Turning the **FMS** Joystick clockwise scrolls through the alphabet (where appropriate) toward the letter Z, starting in the middle at K (US only), and the digits zero through nine. Turning the **FMS** Joystick counter-clockwise scrolls in the opposite direction.
 - b) Use the **FMS** Joystick to move the cursor to the next placeholder in the field.
 - c) Repeat, turning the **FMS** Joystick to select a character and the moving the **FMS** Joystick to move the cursor, until the fields are complete.
 - d) Press the **ENT** Key to confirm entry.
- 4) Press the **FMS** Joystick or the **CLR** Key to cancel data entry (the field reverts back to its previous information).

1.5 PAGES



Selecting a Main Page using the FMS Joystick:

- 1) If necessary press the **FMS** Joystick to begin interaction with the Navigation Bar.
- 2) Turn the **FMS** Joystick until the desired page is selected (**MAP**, **WPT**, **WX** (optional), **TER**, **XM** (optional), **INFO**).

Selecting the FPL or NRST Pages:

- 1) Press the **FPL** or **NRST** Key.
- 2) Press the **FMS** Joystick to begin interaction with the Navigation Bar.
- 3) Turn the **FMS** Joystick until the desired page is selected.

1.6 SYSTEM SETTINGS

Restoring system setting defaults:

- 1) Press the **MENU** Key twice to display the Main Menu.
- 2) Turn or move the **FMS** Joystick to highlight 'System Setup...' and press the **ENT** Key.
- 3) Turn or move the **FMS** Joystick to highlight the desired menu option (Data Bar Fields, Display, Date & Time, Position, or Alarms), and press the **ENT** Key.
- 4) Press the **MENU** Key.
- 5) With the 'Restore Default' highlighted press the **ENT** Key.

Changing the information shown in the data bar fields:

- 1) Press the **MENU** Key twice to display the Main Menu.
- 2) Turn or move the **FMS** Joystick to highlight 'System Setup...' and press the **ENT** Key.
- 3) With 'Data Bar Fields' highlighted, press the **ENT** Key.
- 4) Move the **FMS** Joystick to highlight the desired 'Field'.
- 5) Turn the **FMS** Joystick to access the list of options, then turn or move the **FMS** Joystick to highlight the desired option and press the **ENT** Key.
- 6) To restore defaults, press the **MENU** Key. With 'Restore Default' highlighted, press the **ENT** Key.

Adjusting display backlighting:

- 1) Press the **MENU** Key twice to display the Main Menu.
- 2) Turn or move the **FMS** Joystick to highlight 'System Setup...' and press the **ENT** Key.
- 3) Turn or move the **FMS** Joystick to highlight 'Display', and press the **ENT** Key.

Or:

- a) Turn the **FMS** Joystick to highlight 'Manual'.
 - b) Move the **FMS** Joystick to highlight the desired Backlight Intensity (1-10).
- 5) Press the **FMS** Joystick, the **CLR** Key, the **EXIT** Softkey or the **MENU** Key to return to the previous page.

Adjusting the color mode:

- 1) Press the **MENU** Key twice to display the Main Menu.
- 2) Turn or move the **FMS** Joystick to highlight 'System Setup...' and press the **ENT** Key.
- 3) With 'Display' highlighted press the **ENT** Key.
- 4) With the 'Color Mode' field highlighted, turn the **FMS** Joystick to select the desired color mode (Auto, Day, or Night).
- 5) Press the **FMS** Joystick, the **CLR** Key, the **EXIT** Softkey or the **MENU** Key to remove the menu.

Show/Hide Traffic Page

- 1) Press the **MENU** Key twice to display the Main Menu.
- 2) Turn or move the **FMS** Joystick to highlight 'System Setup...' and press the **ENT** Key.
- 3) Turn or move the **FMS** Joystick to highlight 'Display', and press the **ENT** Key.
- 4) Move the **FMS** Joystick to highlight the Traffic Page field.
- 5) Turn the **FMS** Joystick to highlight the desired option ('SHOW' or 'HIDE').

Changing unit settings:

- 1) Press the **MENU** Key twice to display the Main Menu.
- 2) Turn or move the **FMS** Joystick to highlight 'System Setup...' and press the **ENT** Key.
- 3) Turn or move the **FMS** Joystick to highlight 'Units' and press the **ENT** Key.
- 4) Move the **FMS** Joystick to highlight the desired field, and select the desired unit by turning the **FMS** Joystick.
- 5) Press the **FMS** Joystick, the **CLR** Key, the **EXIT** Softkey or the **MENU** Key to return to the previous page.

Changing position settings:

- 1) Press the **MENU** Key twice to display the Main Menu.
- 2) Turn or move the **FMS** Joystick to highlight 'System Setup...' and press the **ENT** Key.
- 3) Turn or move the **FMS** Joystick to highlight 'Position' and press the **ENT** Key.
- 4) Move the **FMS** Joystick to highlight the desired field, and select the desired option by turning the **FMS** Joystick.
- 5) Press the **FMS** Joystick, the **CLR** Key, the **EXIT** Softkey or the **MENU** Key to remove the menu.

Entering airport criteria:

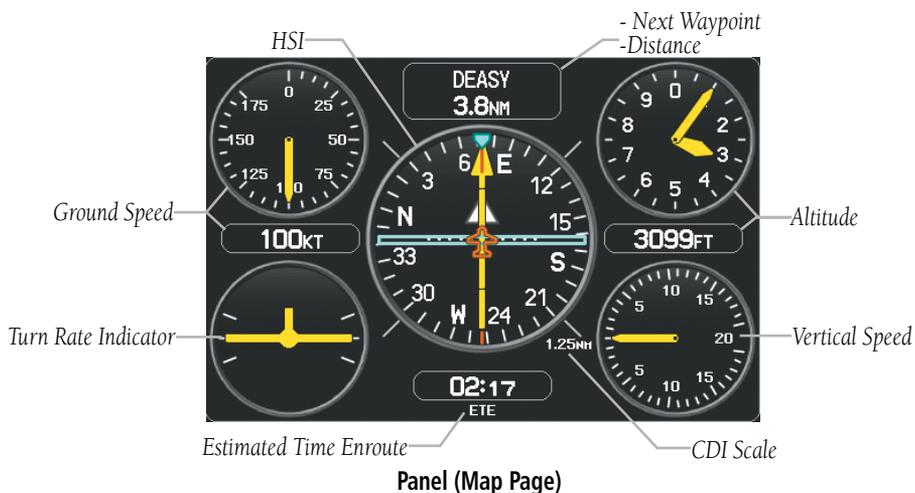
- 1) Press the **NRST** Key.
- 2) Turn the **FMS** Joystick to select the Nearest Airports Page.
- 3) Press the **MENU** Key to display the Page Menu.

- 4) Turn or move the **FMS** Joystick to select 'Set Airport Criteria', and then press the **ENT** Key. The Airport Criteria Window appears with the current settings.
- 5) Move the **FMS** Joystick to highlight the desired field and turn the **FMS** Joystick to select the desired option from the menu. Press the **ENT** Key if necessary to highlight the next field.
- 6) With 'Done' highlighted press the **ENT** Key.

Blank Page

SECTION 2 GPS NAVIGATION

2.1 PANEL



Displaying the panel on the map page:

From the Map Page press the **PANEL** Softkey.

Changing the CDI scale:

- 1) From the Map Page with the Panel or Compass Arc displayed, press the **MENU** Key to display the Map Page Menu
- 2) Turn or move the **FMS** Joystick to highlight 'Set CDI Scale', and press the **ENT** Key. The 'Set CDI Scale' Menu appears.
- 3) Turn or move the **FMS** Joystick to highlight the desired menu option, and press the **ENT** Key.

Setting the Bug Indicator:

- 1) From the Map Page with the Panel or Compass Arc displayed, press the **MENU** Key to display the Map Page Menu
- 2) Turn or move the **FMS** Joystick to highlight 'Set Bug Indicator', and press

the **ENT** Key. The 'Set Bug Indicator' Menu appears.

- 3) Turn or move the **FMS** Joystick to highlight the desired menu option, and press the **ENT** Key. For the 'User Selected' option, turn the **FMS** Joystick to select the desired heading reference, and press the **ENT** Key.

Manually setting a course to the destination waypoint:

- 1) From the Map Page with the Panel or Compass Arc displayed, press the **MENU** Key to display the Map Page Menu.
- 2) Turn or move the **FMS** Joystick to highlight 'Set OBS and Hold', and press the **ENT** Key.
- 3) Turn the **FMS** Joystick to select the desired course to the destination, and press the **ENT** Key.

Returning to automatic sequencing of route waypoints:

- 1) From the Map Page after manually setting a course, press the **MENU** Key to display the Map Page Menu.
- 2) Turn or move the **FMS** Joystick to highlight 'Release Hold', and press the **ENT** Key.

Displaying/removing the Compass Arc from the Map Page:

- 1) With the Map Page displayed, press the **MENU** Key.
- 2) Turn or move the **FMS** Joystick to highlight 'Set Up Map' and press the **ENT** Key.
- 3) Turn the **FMS** Joystick to highlight the 'General' Menu.
- 4) Move the **FMS** Joystick to highlight the 'Compass Arc' field.
- 5) Turn the **FMS** Joystick to access the 'On/Off' drop down list.
- 6) Turn or move the **FMS** Joystick to highlight 'Off', and press the **ENT** Key.

2.2 VERTICAL NAVIGATION (VNAV)

Configuring a VNAV profile:

- 1) While navigating a flight plan or direct-to, press the **FPL** Key.
- 2) Turn the **FMS** Joystick to select the Vertical Navigation Page.
- 3) Press the **FMS** Joystick to activate the cursor.
- 4) Enter the desired profile into the fields, and press the **EXIT** Softkey.

Enabling/disabling the VNAV indicator:

- 1) From the Map Page, press the **MENU** Key to display the Map Page Menu
- 2) Turn or move the **FMS** Joystick to highlight 'Enable VNAV Indicator' or 'Disable VNAV Indicator', and press the **ENT** Key (must be navigating a Flight Plan or Direct-to and have the Panel displayed).

Force capture of the VNAV profile:

- 1) Enter a valid VNAV profile and begin navigation.
- 2) From the VNAV Page, press (select) the **CAPTURE** Softkey.

Force cancel of the VNAV profile:

- 1) Enter a valid VNAV profile and begin navigation.
- 2) From the VNAV Page, press (deselect) the **CAPTURE** Softkey.

2.3 USING MAP DISPLAYS

Changing the Navigation Map orientation:

- 1) With the Map Page displayed, press the **MENU** Key.
- 2) Turn or move the **FMS** Joystick to highlight 'Set Up Map' and press the **ENT** Key.
- 3) Turn the **FMS** Joystick to highlight the 'General' Menu.
 - a) Move the **FMS** Joystick to highlight the 'Orientation' field.
 - b) Turn the **FMS** Joystick to access a list of available options.
 - c) Turn or move the **FMS** Joystick to highlight 'North Up', 'Track Up', or 'DTK Up', and press the **ENT** Key.

Or:

- a) Move the **FMS** Joystick to highlight the 'North Up Above' field.
- b) Turn the **FMS** Joystick to access a list of available range options.
- c) Turn or move the **FMS** Joystick to highlight the desired range above which to display North Up orientation.

Or:

- a) Move the **FMS** Joystick to highlight the 'North Up On GRND' field.
- b) Using the **FMS** Joystick highlight 'On' or 'Off', and press the **ENT** Key. When 'North Up On GRND' is 'ON' (default), the map orientation will change to North Up when the aircraft is on the ground.

Panning and Reviewing information for a map feature:

- 1) Press the **FMS** Joystick (or **PAN MAP** Softkey on the Weather (WX) Page) to display the Map Pointer.
- 2) Move the **FMS** Joystick to move the Map Pointer around the map.
- 3) Place the Map Pointer on a map feature. If multiple map features are present at the Map Pointer position (green arrow in the information box), turn the **FMS** Joystick to cycle through the list.
- 4) Press the **ENT** Key to display the review page for the highlighted feature.
- 5) Press the **FMS** Joystick, the **CLR** Key, or the **ENT** Key to exit the review page and return to the Map Page showing the selected waypoint.
- 6) Press the **FMS** Joystick to remove the Map Pointer and re-center the map on the aircraft's current position.

Measuring bearing and distance between any two points:

- 1) From the Map Page, press the **MENU** Key.
- 2) Turn or move the **FMS** Joystick to highlight 'Measure Distance' and press the **ENT** Key. A Measure Pointer is displayed on the map at the aircraft's present position.
- 3) Move the **FMS** Joystick to place the reference pointer at the desired location. The bearing and distance are displayed at the top of the map. Elevation at the current pointer position is also displayed. Pressing the **ENT** Key changes the starting point for measuring.
- 4) To exit the Measure Bearing/Distance option, press the **FMS** Joystick; or select 'Stop Measuring' from the Page Menu and press the **ENT** Key.

To declutter the Map Page:

- 1) From any Map Page, press the **CLR** Key. 'CLEAR-1' appears below the map range. The background map detail (such as highways, cities, rivers & smaller lakes) is removed from the map.
- 2) Press the **CLR** Key again. 'CLEAR-2' appears below the map range and airspace boundary detail is removed from the map.
- 3) Press the **CLR** Key again. 'CLEAR-3' appears below the map range. Only the waypoints and nav aids that are part of the current flight plan appear on the map.
- 4) Press the **CLR** Key again to return 'ALL' detail to the map.

2.4 WAYPOINTS

Selecting an airport for review by identifier, facility name, or location:

- 1) From the Waypoint (WPT) Page, press the **INFO** Softkey.
- 2) Press the **FMS** Joystick to activate the cursor.
- 3) Turn the **FMS** Joystick clockwise to begin entering a waypoint identifier (turning it counter-clockwise brings up the waypoint selection submenu - press the **CLR** Key to remove it), or move the **FMS** Joystick to select the facility name, or city field.
- 4) Press the **ENT** Key.

Selecting a runway:

- 1) With the Waypoint (WPT) Page displayed, press the **INFO** Softkey.
- 2) Press the **FMS** Joystick to activate the cursor.
- 3) Turn the **FMS** Joystick clockwise to begin entering a waypoint identifier for the desired runway (turning it counter-clockwise brings up the waypoint selection submenu - press the **CLR** Key to remove it), or move the **FMS** Joystick to select the facility name, or city field.
- 4) Press the **ENT** Key.
- 5) Move the **FMS** Joystick to place the cursor in the 'Runways' Box, on the runway designator.
- 6) Turn the **FMS** Joystick to display the desired runway (if more than one) for the selected airport.

Viewing additional information for a frequency:

- 1) With the Waypoint (WPT) Page displayed, press the **INFO** Softkey.
- 2) Press the **FMS** Joystick to activate the cursor.
- 3) Move the **FMS** Joystick to place the cursor in the 'Frequencies' Box, on the frequency denoted with an *.
- 4) Press the **ENT** Key to view the Additional Information Window.
- 5) To remove the window, press the **FMS** Joystick, **ENT** Key, or **CLR** Key.

2.5 NEAREST INFORMATION

Viewing nearest information:

- 1) Press the **NRST** Key.
- 2) Turn the **FMS** Joystick to select the desired Nearest Page (APT, WX, VOR, NDB, INT, USR, CTY, ATC, FSS, or ASPC. If none are available, "None Within 200 NM" is displayed.
- 3) Press the **NRST** Key again or press the **FMS** Joystick to highlight the first selection in the list. Turn or move the **FMS** Joystick to highlight the desired nearest option.
- 4) Press the **ENT** Key to display the associated 'Information Page'. From the Airport Information Page and Weather Information Page, press the **INFO**, **CHART**, **AOPA**, or **WEATHER** Softkeys for additional information. From the User Waypoint Information Page, press the **DELETE**, or **EDIT** softkeys to make changes to the selected user waypoint.
- 5) To return to the Nearest Page, press the **FMS** Joystick, the **ENT** Key, or the **CLR** Key.

Setting nearest airport criteria:

- 1) With the Nearest Airports Page displayed, press the **MENU** Key.
- 2) Turn or move the **FMS** Joystick to select 'Set Airport Criteria' from the Page Menu.
- 3) Press the **ENT** Key. The Airport Criteria Window is displayed.
- 4) Move the **FMS** Joystick to select the desired criteria to be defined.
- 5) Turn the **FMS** Joystick to select the desired option.
- 6) Press the **ENT** Key.

WEATHER INFORMATION (OPTIONAL)

Textual weather information can be viewed from the Waypoint Page or the Nearest WX Page. Refer to the Hazard Avoidance section for information on SiriusXM Weather and FIS-B

Selecting airport weather information:

- 1) From the Waypoint Page, press the **WEATHER** Softkey.
- 2) Press the **FMS** Joystick to activate the cursor.

- 3) Turn the **FMS** Joystick clockwise to begin entering an airport identifier (turning it counter-clockwise brings up the waypoint selection submenu - press the **CLR** Key to remove it).
- 4) Press the **ENT** Key.

Or:

 - 1) Press the **NRST** Key.
 - 2) Turn the **FMS** Joystick to select the Nearest Airport WX Page. If Nearest Airport Weather is not available, "None Within 200 NM" is displayed.
 - 3) Press the **FMS** Joystick to highlight the first airport in the nearest airport weather list. Turn or move the **FMS** Joystick to highlight the desired airport weather.
 - 4) Press the **ENT** Key to display the Weather Information Page.
 - 5) Turn the **FMS** Joystick to scroll up or down on the page.
 - 6) To return to the Nearest Airport Weather Page, press the **FMS** Joystick, the **ENT** Key, or the **CLR** Key.

Viewing FIS-B NOTAMs (GDL 39 only):

- 1) From the Waypoints Page press **NOTAMS** Softkey.
- 2) If needed, scroll up or down using the **FMS** Joystick.

2.6 USER WAYPOINTS

Creating user waypoints:

- 1) To create a user waypoint at the current location, using the Map Pointer, or from the Main Menu:
 - a) To create a user waypoint at the current location, press and hold the **ENT** Key from any page. The 'Mark a New User Waypoint?' window appears.
 - b) The 'Mark a New User Waypoint?' window appears.

Or:

 - a) Press the **MENU** Key twice to access the Main Menu.
 - b) Move the **FMS** Joystick to highlight 'User Waypoints' and press the **ENT** Key.
 - c) Enter a user waypoint name (up to 10 characters).

d) Press the **NEW** Softkey. The message "Create a New User Waypoint?" is displayed. The current aircraft position is the default location of the new waypoint.

Or:

a) From a map page, press the **FMS** Joystick to activate the Map Pointer (on the WX Page, press the **PAN MAP** Softkey).

b) Find an empty area without any map features and press the **ENT** Key. The message "Create a New User Waypoint?" is displayed.

Or:

a) From a map page, press the **FMS** Joystick to activate the Map Pointer (on the WX Page, press the **PAN MAP** Softkey).

b) Select a map feature using the Map Pointer and press the **MENU** Key.

c) With 'Create User Waypoint' highlighted, press the **ENT** Key. The message "Create a New User Waypoint?" is displayed.

2) With 'Yes' highlighted, press the **ENT** Key. The New Waypoint Window is displayed.

3) Move the **FMS** Joystick to the User Waypoint Name Field and enter the waypoint name, if desired.

4) If desired, select the waypoint symbol:

a) Move the **FMS** Joystick to highlight the Symbol.

b) Turn the **FMS** Joystick to access the 'Select Symbol' Menu.

c) Turn or move the **FMS** Joystick to highlight the desired symbol from the menu, and press the **ENT** Key.

5) If desired, press the **POSITION** Softkey and enter the latitude, longitude, name, or altitude for the waypoint **or** press the **REF WPTS** Softkey to enter a bearing and distance from another waypoint or the bearing from two other waypoints to define the new waypoint location.

6) With 'Done' highlighted, press the **ENT** Key.

Editing or renaming a user waypoint:

1) Press the **MENU** Key twice to access the Main Menu.

2) Move the **FMS** Joystick to highlight 'User Waypoints' and press the **ENT** Key.

3) Move the **FMS** Joystick to highlight the appropriate waypoint and press the **EDIT** Softkey. The Edit Waypoint Window is displayed.

- 4) Move the cursor to the desired field(s) and make any necessary changes (to edit the Reference Waypoints, press the **REF WPTS** Softkey).
- 5) With 'Done' highlighted, press the **ENT** Key.

Deleting user waypoints:

- 1) Press the **MENU** Key twice to access the Main Menu.
- 2) Turn or Move the **FMS** Joystick to highlight 'User Waypoints' and press the **ENT** Key. If deleting all user waypoints, go to Step 4.
- 3) Highlight a User Waypoint in the User Waypoint List, or enter a waypoint in the User Waypoint field.
- 4) Press the **MENU** Key.
- 5) Select 'Delete Waypoint' or 'Delete All'.
- 6) Press the **ENT** Key. 'No' is highlighted in the confirmation window.
- 7) With 'Yes' highlighted in the confirmation window, press the **ENT** Key.

Or:

- 1) Press the **MENU** Key twice to access the Main Menu.
- 2) Turn or Move the **FMS** Joystick to highlight 'User Waypoints' and press the **ENT** Key.
- 3) Highlight a User Waypoint in the User Waypoint List, or enter a waypoint in the User Waypoint field.
- 4) Press the **ENT** Key.
- 5) Press the **DELETE** Softkey. 'No' is highlighted in the confirmation window.
- 6) Highlight 'Yes' and press the **ENT** Key.

User Waypoints can also be deleted by 'Symbol' or 'Distance' from the User Waypoints Page Menu.

2.7 AIRSPACE

Selecting and viewing nearest airspaces:

- 1) Press the **NRST** Key.
- 2) Turn the **FMS** Joystick to select the Nearest Airspace Page.
- 3) Press the **FMS** Joystick to highlight the nearest airspace. Turn or move the **FMS** Joystick to highlight the desired airspace.

- 4) Press the **ENT** Key to display the Airspace Information Page.
- 5) Press the **FREQS** Softkey (if available) to display frequency and additional airport information similar to the Waypoint Information Page.

2.8 DIRECT-TO NAVIGATION

Entering a waypoint identifier, facility name, or city as a direct-to destination:

- 1) Press the **Direct-to** Key. The Direct-to Window is displayed (with the active flight plan waypoint as the default selection or a blank waypoint field if no flight plan is active).
- 2) Turn the **FMS** Joystick clockwise to begin entering a waypoint identifier (turning it counter-clockwise brings up the waypoint selection submenu - press the **CLR** Key to remove it), press the **RECENT** Softkey to display a list of recent waypoints, or move the **FMS** Joystick to select the facility name, or city field.
- 3) Press the **ENT** Key.
- 4) With 'Activate' highlighted, press the **ENT** Key.

Selecting a waypoint as a direct-to destination using the pointer:

- 1) From a navigation map page, press the **FMS** Joystick to display the pointer.
- 2) Move the **FMS** Joystick to place the pointer at the desired destination location.
- 3) If the pointer is placed on an existing airport, NAVAID, or user waypoint, the waypoint name is highlighted.
- 4) Press the **Direct-to** Key to display the Direct-to Window with the selected point entered as the direct-to destination.
- 5) Press the **ENT** Key.
- 6) With 'Activate' highlighted, press the **ENT** Key.

Cancelling a direct-to:

- 1) Press the **Direct-to** Key to display the Direct-to Window.
- 2) Move the **FMS** Joystick to highlight 'Stop Navigation' or 'Resume Flight Plan' if a flight plan was active.
- 3) Press the **ENT** Key. If a flight plan is still active, the GDU 37X resumes navigating the flight plan along the closest leg.

SECTION 3 FLIGHT PLANNING

MANUALLY SWITCHING BETWEEN INTERNAL AND EXTERNAL FLIGHT PLAN SOURCES



NOTE: The selection of the internal GPS navigation source to persist through power cycles or reset to the external GPS navigation source is dependant on the configuration. Refer to the GDU 37X Installation Manual for more information.

Press the **INTERNAL** Softkey on the Active Flight Plan Page or the Direct-to Page, to temporarily allow flight planning through the GDU 37X using the internal GPS flight plan when an external GPS Navigator is configured. Press the **EXTERNAL** Softkey to return to the external GPS navigator's flight plan.

When manually selecting the internal GPS flight plan, 'INT' is displayed in light blue in the upper left corner of the Data Bar.

Using Internal GPS Flight Plan

INT GPS	WPT KOJC	BRG 129°M	DST 1.4NM	ETE 00:41
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Internal Flight Plan Indication

Switching between internal and external flight plan sources:

From the Active Flight Plan Page or the Direct-to Page, press the **INTERNAL** or **EXTERNAL** Softkey to switch between the internal and external flight plan sources when an external GPS Navigator is configured.

3.1 FLIGHT PLAN CREATION

Creating an active flight plan:

- 1) Press the **FPL** Key.
- 2) If an external navigator is configured, press the **INTERNAL** Softkey.
- 3) Press the **FMS** Joystick to activate the cursor.
- 4) Turn the **FMS** Joystick to display the Insert Waypoint Window. (Turning it clockwise displays a blank Insert Waypoint Window, turning it counter-clockwise displays a list of recent waypoints (RECENT WPTS), nearest airports (NRST APTS), or flight plan waypoints (FPL WPTS)).

- 5) Enter the identifier, facility, or city name of the departure waypoint or select a waypoint from the submenu of waypoints and press the **ENT** Key. The active flight plan is modified as each waypoint is entered.
- 6) Repeat step numbers 3 and 4 to enter each additional flight plan waypoint.
- 7) When all waypoints have been entered, press the **FMS** Joystick to remove.

Creating an active or saved flight plan using the map:

- 1) Press the **FPL** Key.
- 2) If an external navigator is configured, press the **INTERNAL** Softkey.
- 3) From the Active Flight Plan Page or from the Flight Plan List Page after pressing the **NEW** Softkey, press the **USE MAP** Softkey to activate the map pointer.
- 4) Move the **FMS** Joystick to highlight the desired waypoint or create your own user-defined waypoint anywhere on the map.
- 5) With the desired waypoint selected press the **ENT** Key. The waypoint is added to the flight plan and the **APPEND** Softkey is selected. To view information about a waypoint without adding it to the flight plan, deselect the **APPEND** Softkey and press the **ENT** Key.
- 6) With the **APPEND** Softkey selected, repeat step numbers 3 and 4 to enter each additional flight plan waypoint.
- 7) Press the **DONE** Softkey (from the Flight Plan List Page only).

Creating a stored flight plan:

- 1) Press the **FPL** Key.
- 2) If an external navigator is configured, press the **INTERNAL** Softkey.
- 3) Turn the **FMS** Joystick to display the Flight Plan List Page.
- 4) Press the **NEW** Softkey; or press the **MENU** Key, highlight 'New Flight Plan', and press the **ENT** Key to display a blank flight plan for the first empty storage location.
- 5) Turn the **FMS** Joystick to display the Insert Waypoint Window (Turning it clockwise displays a blank Insert Waypoint Window, turning it counter-clockwise displays a list of recent waypoints (RECENT WPTS), nearest airports (NRST APTS), or flight plan waypoints (FPL WPTS)).
- 6) Enter the identifier, facility, or city name of the departure waypoint or select a waypoint from the submenu of waypoints and press the **ENT** Key.

- 7) Repeat steps 4 and 5 to enter each additional flight plan waypoint.
- 8) When all waypoints have been entered, press the **FMS** Joystick to return to the Flight Plan List Page. The new flight plan is now in the list.

Loading an approach procedure into a stored flight plan:

- 1) Press the **FPL** Key.
- 2) Turn the **FMS** Joystick to select the Flight Plan List Page.
- 3) Press the **FMS** Joystick to activate the cursor.
- 4) Turn or move the **FMS** Joystick to highlight the desired flight plan and press the **ENT** Key.
- 5) Press the **SEL APPR** Softkey.
- 6) Turn the **FMS** Joystick to display a drop down list of available approaches.
- 7) Turn or move the **FMS** Joystick to highlight the desired approach and press the **ENT** Key.
- 8) With 'Load Approach' highlighted, press the **ENT** Key.

3.2 FLIGHT PLAN ACTIVATION

Activating a stored flight plan:

- 1) Press the **FPL** Key and turn the **FMS** Joystick to display the Flight Plan List Page.
- 2) If an external navigator is configured, press the **INTERNAL** Softkey.
- 3) Press the **FMS** Joystick to activate the cursor, and turn or move the **FMS** Joystick to highlight the desired flight plan.
- 4) Press the **ACTIVATE** Softkey; or press the **MENU** Key, highlight 'Activate Flight Plan', and press the **ENT** Key. The 'Activate XXXXX-XXXXX' confirmation window appears (only if already navigating a flight plan).
- 5) With 'Yes' highlighted, press the **ENT** Key. To cancel the request, press the **CLR** Key, the **FMS** Joystick, or highlight 'No' and press the **ENT** Key.

Activating a Flight Plan Leg:

- 1) Press the **FPL** Key.
- 2) If an external navigator is configured, press the **INTERNAL** Softkey.
- 3) Turn the **FMS** Joystick to display the Active Flight Plan Page.

- 4) Press the **FMS** Joystick to activate the cursor and move the **FMS** Joystick to highlight the waypoint leg to be activated.
- 5) Press the **Direct-to** Key twice. The “Activate Leg XXXXX - XXXXX?” window is displayed.
- 6) With ‘Yes’ highlighted, press the **ENT** Key. To cancel the request, press the **CLR** Key, the **FMS** Joystick, or highlight ‘No’ and press the **ENT** Key.

3.3 FLIGHT PLAN EDITING

Adjusting the Active Flight Plan fuel flow:

- 1) Press the **FPL** Key and turn the **FMS** Joystick to display the Active Flight Plan Page.
- 2) If an external navigator is configured, press the **INTERNAL** Softkey.
- 3) Press the **FMS** Joystick to activate the cursor, and move the **FMS** Joystick to highlight the ‘Plan Fuel’ field.
- 4) Using the **FMS** Joystick, enter the desired plan flow, and press the **ENT** Key.

Adjusting the Saved Flight Plan speed and fuel flow:

- 1) Press the **FPL** Key and turn the **FMS** Joystick to display the Flight Plan List Page.
- 2) Press the **FMS** Joystick to activate the cursor, and turn or move the **FMS** Joystick to highlight the desired flight plan, and press the **ENT** Key. The Saved Flight Plan Page is displayed.
- 3) Move the **FMS** Joystick to the ‘Plan Speed’ field.
- 4) Using the **FMS** Joystick, enter the desired speed, and press the **ENT** Key.
- 5) Repeat Steps 3 and 4 for ‘Fuel Flow’, and press the **DONE** Softkey.

Deleting a stored flight plan:

- 1) Press the **FPL** Key and turn the **FMS** Joystick to display the Flight Plan List Page.
- 2) Press the **FMS** Joystick to activate the cursor, and turn or move the **FMS** Joystick to highlight the desired flight plan.
- 3) Press the **CLR** Key; or press the **MENU** Key, highlight ‘Delete Flight Plan’, and press the **ENT** Key.
- 4) With ‘Yes’ highlighted, press the **ENT** Key to delete the flight plan. To cancel the request, press the **CLR** Key, the **FMS** Joystick, or highlight ‘No’ and press the **ENT** Key.

Deleting the Active Flight Plan:

- 1) Press the **FPL** Key to display the Active Flight Plan Page.
- 2) If an external navigator is configured, press the **INTERNAL** Softkey.
- 3) Press the **MENU** Key.
- 4) With 'Stop Navigation' highlighted, press the **ENT** Key.

Deleting an individual waypoint from the active flight plan:

- 1) Press the **FPL** Key to display the Active Flight Plan Page.
- 2) If an external navigator is configured, press the **INTERNAL** Softkey.
- 3) Press the **FMS** Joystick to activate the cursor and turn or move the **FMS** Joystick to highlight the waypoint to be deleted.
- 4) Press the **CLR** Key or press the **MENU** Key and highlight 'Remove Waypoint'. The 'Remove XXXXX From Flight Plan?' window is displayed.
- 5) With 'Yes' highlighted, press the **ENT** Key. To cancel the request, press the **CLR** Key, the **FMS** Joystick, or highlight 'No' and press the **ENT** Key.

Inverting the active flight plan:

- 1) Press the **FPL** Key to display the Active Flight Plan Page.
- 2) If an external navigator is configured, press the **INTERNAL** Softkey.
- 3) Press the **MENU** Key, turn or move the **FMS** Joystick to highlight 'Invert Flight Plan', and press the **ENT** Key. An "Invert the Active Flight Plan?" confirmation window is displayed.
- 4) With 'Yes' highlighted, press the **ENT** Key to invert the active flight plan. To cancel, press the **CLR** Key, the **FMS** Joystick, or highlight 'No' and press the **ENT** Key.

Inverting a saved flight plan:

- 1) Press the **FPL** Key and turn the **FMS** Joystick to display the Flight Plan List Page.
- 2) Press the **FMS** Joystick to activate the cursor.
- 3) Move the **FMS** Joystick to highlight the desired flight plan, and press the **ENT** Key. The Saved Flight Plan Page is displayed.
- 4) Press the **MENU** Key, highlight 'Invert Flight Plan?', and press the **ENT** Key.
- 5) With 'Yes' highlighted, press the **ENT** Key. To cancel the request, press the **CLR** Key, the **FMS** Joystick, or highlight 'No' and press the **ENT** Key.

3.4 APPROACHES

Loading an approach from the active or saved flight plan page:

- 1) Press the **FPL** Key.
- 2) Turn the **FMS** Joystick to display the Active Flight Plan Page or Saved Flight Plan Page.
- 3) Press the **SEL APPR** Softkey; or press the **MENU** Key, highlight 'Select Approach' by turning or moving the **FMS** Joystick, and press the **ENT** Key. The Select Approach Window is displayed.
- 4) Turn the **FMS** Joystick to access a list of available approaches. Turn or move the **FMS** Joystick to highlight the desired approach and press the **ENT** Key.
- 5) With 'Load Approach' highlighted, press the **ENT** Key. To cancel the request, press the **CLR** Key or the **FMS** Joystick.

Viewing a chart for the selected approach:

- 1) With an approach selected in the Select Approach Window, press the **MENU** Key. The Show Chart Menu is displayed.
- 2) Press the **ENT** Key. A chart displaying the selected approach is displayed.
- 3) Press the **EXIT** Softkey to return to the Select Approach Window.

Activating an approach on the Active Flight Plan Page:

- 1) Press the **FPL** Key.
- 2) Turn the **FMS** Joystick to display the Active Flight Plan Page (if necessary).
- 3) Press the **SEL APPR** Softkey; or press the **MENU** Key, highlight 'Select Approach' by turning or moving the **FMS** Joystick, and press the **ENT** Key. The Select Approach Window is displayed.
- 4) Turn the **FMS** Joystick to access a list of available approaches. Turn or move the **FMS** Joystick to highlight the desired approach and press the **ENT** Key.
- 5) With 'Activate Approach' highlighted, press the **ENT** Key. To cancel the request, press the **CLR** Key or the **FMS** Joystick.

Or:

- 1) With an approach loaded on the Active Flight Plan Page, press the **MENU** Key.
- 2) Turn or move the **FMS** Joystick to highlight 'Activate Approach', and press the **ENT** Key.

Or:

- 1) With an approach loaded on the Active Flight Plan Page, press the **FMS** Joystick to activate the cursor.
- 2) Move the **FMS** Joystick to highlight the approach, and press the **ENT** Key. "Activate XXXXX Approach?" window is displayed.
- 3) With 'Yes' highlighted, press the **ENT** Key.

Loading/Activating an approach from the Direct-to Window or Waypoint Page:

- 1) Press the **Direct-to** Key or select the Waypoint Page.
- 2) Press the **MENU** Key.
- 3) Turn or move the **FMS** Joystick to highlight 'Select Approach', and press the **ENT** Key. If an approach is not already loaded or activated, the cursor is displayed in the Approach Field. If an approach is already loaded or activated, 'Activate' is highlighted.
- 4) With 'Activate' highlighted press the **ENT** Key, or select an approach, highlight 'Load Approach' or 'Activate Approach', and press the **ENT** Key.

Removing an approach:

- 1) Press the **FPL** Key.
- 2) Turn the **FMS** Joystick to display the Active Flight Plan Page or Saved Flight Plan Page.
- 3) Press the **RMV APPR** Softkey; or press the **MENU** Key, highlight 'Remove Approach' by turning or moving the **FMS** Joystick, and press the **ENT** Key.

3.5 ACTIVATING VECTORS-TO-FINAL

After an approach has been activated, the **VECTORS** Softkey is used when being vectored to the final approach course by Air Traffic Control (ATC).

If the **VECTORS** Softkey is selected, the GDU 37X creates an extension of the final course, beyond the final approach waypoint in the database (final approach fix [FAF]). On the Active Flight Plan Page, a Vector to Final symbol appears beside the first approach waypoint.

The GDU 37X provides no guidance to the inbound course. The course deviation needle on the graphic HSI remains off-center until established on the final approach course. The map shows an extension of the final approach course using a bold magenta line.

If the **VECTORS** Softkey is not selected, the GDU 37X creates a straight-line course directly to the first waypoint in the approach.

Loading the approach cancels the Direct-to and initiates a route to the FAF.

Cancelling Vectors-to-Final:

From the Active Flight Plan Page (with an approach activated), press the **VECTORS** Softkey.

Or:

- 1) From the Active Flight Plan Page, press the **MENU** Key.
- 2) Turn or move the **FMS** Joystick to highlight 'Cancel Vectors-to-Final' and press the **ENT** Key.

SECTION 4 HAZARD AVOIDANCE

4.1 WEATHER

Switching Weather Sources (GDU 375 only):

- 1) Press the **MENU** Key twice to display the Main Menu.
- 2) Turn or move the **FMS** Joystick to highlight 'System Setup...' and press the **ENT** Key.
- 3) Turn or move the **FMS** Joystick to highlight 'WEATHER'.
- 4) Press the **ENT** Key.
- 5) Turn or move the **FMS** Joystick to select the desired weather source (AUTO, XM, or GDL FIS-B). The default is 'AUTO' which will use XM over GDL FIS-B if both are available.
- 6) Press the **FMS** Joystick, the **CLR** Key, or the **EXIT** Softkey to return to the previous page.

Or

- 1) From the Weather Page press **SETUP** Softkey.
- 2) Turn or move the **FMS** Joystick to select the desired weather source (AUTO, XM, or GDL FIS-B). The default is 'AUTO' which will use XM over GDL FIS-B if both are available.
- 3) Press the **FMS** Joystick, the **CLR** Key, or the **EXIT** Softkey to return to the previous page

SIRIUSXM WEATHER (GDU 375)

Accessing SiriusXM Weather information:

From the Weather (WX) Page press the **INFO** Softkey.

Or:

From the (XM) Audio Page press the **INFO** Softkey.

Viewing SiriusXM Weather products on the Map Page:

- 1) Select the Map Page.
- 2) Select the **WEATHER** Softkey to display the SiriusXM weather products.

Or:

- a) Press the **MENU** Key.
- b) Select 'Show Weather' and press the **ENT** Key.
- 3) Press the **FMS** Joystick to activate the Map Pointer.
- 4) Use the **FMS** Joystick to highlight the desired weather product with the Map Pointer.
- 5) With the desired weather product highlighted, press the **ENT** Key to get detailed information (if available).

Viewing SiriusXM Weather products on the Weather (WX) Page:

- 1) From the WX Page press the **FMS** Joystick to highlight the weather product field.
- 2) Turn the **FMS** Joystick to select and automatically display the desired weather product.
- 3) If necessary, move the **FMS** Joystick to highlight the type field and turn the **FMS** Joystick to scroll through a list of available options.
- 4) Press the **PAN MAP** Softkey to get abbreviated information about the selected weather product or map feature (if available).
- 5) With the desired weather product selected press the **ENT** Key to get detailed information (if available).

Viewing legends for displayed weather products:

- 1) From the Map Page press the **MENU** Key to access the Map Page Menu.
- 2) Turn or move the **FMS** Joystick to select 'Weather Legend' and press the **ENT** Key to display the Weather Legend Window.
- 3) Turn the **FMS** Joystick to view the desired weather legend (Radar, Fronts, METAR, AIRMET, Turbulence Forecast, or Other).
- 4) With '**DONE**' highlighted, press the **ENT** Key to return to the Map Page.

Or:

- 1) From the Weather (WX) Page press the **LEGEND** Softkey to display the Weather Legend Window.
- 2) Turn the **FMS** Joystick to view the desired weather legend (Radar, Fronts, METAR, AIRMET, Turbulence Forecast, or Other).
- 3) Press the **FMS** Joystick, **CLR** Key, or **LEGEND** Softkey to return to the Weather (WX) Page.

Animating SiriusXM weather:

- 1) From the Map Page press the **MENU** Key to access the Map Page Menu.
- 2) Turn or move the **FMS** Joystick to select 'Animate Weather' and press the **ENT** Key.
- 3) To stop animation, press the **MENU** Key again, turn or move the **FMS** Joystick to select 'Stop Animation' and press the **ENT** Key.

Or:

- 1) Select the Weather (WX) Page.
- 2) Using the **FMS** Joystick select either the 'NEXRAD Radar' or 'Satellite Mosaic' weather product.
- 3) Select the **ANIMATE** Softkey to begin animation.

Or:

- a) Press the **MENU** Key.
- b) Select 'Animate Weather' and press the **ENT** Key to begin animation.
- 4) To stop animation, press the **MENU** Key again, turn or move the **FMS** Joystick to select 'Stop Animation' and press the **ENT** Key.

DATA LINK WEATHER (FIS-B) (370 OR 375)

Viewing FIS-B Weather product Status:

- 1) Press the **MENU** Key twice to display the Main Menu.
- 2) Turn or move the **FMS** Joystick to highlight 'Data Link Information' and press the **ENT** Key.
- 3) Press the **WEATHER** Softkey, to view the age in hours:minutes of each weather product.

Or:

- 1) From the Weather Page, press the **INFO** Softkey.

Viewing Ground Station Status:

- 1) Press the **MENU** Key twice to display the Main Menu.
- 2) Turn or move the **FMS** Joystick to highlight 'Data Link Information' and press the **ENT** Key.
- 3) Press the **STATIONS** Softkey, to view ground station(s) status (Active/Inactive), bearing, and distance.

Or:

- 1) From the Weather Page, press the **INFO** Softkey.
- 2) Press the **STATIONS** Softkey, to view ground station(s) status bearing and distance.

Viewing FIS-B Weather products on the Map Page:

- 1) Select the Map Page.
- 2) Select the **WEATHER** Softkey to display the FIS-B weather products.

Or:

- a) Press the **MENU** Key.
- b) Select 'Show Weather' and press the **ENT** Key.
- 3) Press the **FMS** Joystick to activate the Map Pointer.
- 4) Use the **FMS** Joystick to highlight the desired weather product with the Map Pointer.
- 5) With the desired weather product highlighted, press the **ENT** Key to get detailed information (if available).

Viewing FIS-B Weather products on the Weather (WX) Page:

- 1) From the WX Page press the **FMS** Joystick to highlight the weather product field.
- 2) Turn the **FMS** Joystick to select and automatically display the desired weather product.
- 3) If necessary, move the **FMS** Joystick to highlight the type field and turn the **FMS** Joystick to scroll through a list of available options.
- 4) Press the **PAN MAP** Softkey to get abbreviated information about the selected weather product or map feature (if available).
- 5) With the desired weather product selected press the **ENT** Key to get detailed information (if available).

Viewing legends for displayed weather products:

- 1) From the Map Page press the **MENU** Key to access the Map Page Menu.
- 2) Turn or move the **FMS** Joystick to select 'Weather Legend' and press the **ENT** Key to display the Weather Legend Window.
- 3) Turn the **FMS** Joystick to view the desired weather legend (Radar, METAR, or AIRMET).

- 4) With **'DONE'** highlighted, press the **ENT** Key to return to the Map Page.
- Or:**
- 1) From the Weather (WX) Page press the **LEGEND** Softkey to display the Weather Legend Window.
 - 2) Turn the **FMS** Joystick to view the desired weather legend (Radar, METAR, or AIRMET).
 - 3) Press the **FMS** Joystick, **CLR** Key, or **LEGEND** Softkey to return to the Weather (WX) Page.

Animating FIS-B weather:

- 1) From the Map Page press the **MENU** Key to access the Map Page Menu.
- 2) Turn or move the **FMS** Joystick to select 'Animate Weather' and press the **ENT** Key.
- 3) To stop animation, press the **MENU** Key again, turn or move the **FMS** Joystick to select 'Stop Animation', and press the **ENT** Key.

Or:

- 1) Select the Weather (WX) Page.
- 2) Using the **FMS** Joystick select either the 'NEXRAD Radar Combined' or 'NEXRAD Radar Regional Only' weather product.
- 3) Select the **ANIMATE** Softkey to begin animation.

Or:

- a) Press the **MENU** Key.
 - b) Select 'Animate Weather' and press the **ENT** Key to begin animation.
- 4) To stop animation, deselect the **ANIMATE** Softkey.

Or:

Press the **MENU** Key, turn or move the **FMS** Joystick to select 'Stop Animation', and press the **ENT** Key.

Viewing FIS-B NOTAMs:

- 1) From the Waypoints Page press **NOTAMS** Softkey.
- 2) If needed, scroll up or down using the **FMS** Joystick.

4.2 TERRAIN

Enabling/Disabling Terrain Shading on the Map Page:

From the Map Page with the VFR Map displayed, press the **TERRAIN** Softkey.

Or:

- 1) From the Map Page, press the **MENU** Key.
- 2) Turn or move the **FMS** Joystick to highlight 'Set Up Map', and press the **ENT** Key.
- 3) Turn the **FMS** Joystick to highlight the 'Map' Category from the horizontal list.
- 4) Move the **FMS** Joystick to highlight the 'Terrain Shading' field.
- 5) Turn the **FMS** Joystick to select 'On' or 'Off', and press the **ENT** Key.

Enabling/Disabling terrain alerts:

From the Terrain Page, press the **DISABLE** Softkey.

Or:

- 1) From the Terrain Page, press the **MENU** Key to access the Page Menu.
- 2) Turn or move the **FMS** Joystick to highlight 'Disable Alerts' or 'Enable Alerts' and press the **ENT** Key.

Setting up Terrain Alerts:

- 1) On the Terrain Page, press **MENU** to access the Page Menu.
Or: Press the **SETTINGS** softkey.
- 2) Turn or move the **FMS** Joystick to highlight 'Set Up Terrain' and press the **ENT** Key.
- 3) Move the **FMS** Joystick to highlight the desired field.
- 4) Turn the **FMS** Joystick to make changes to the highlighted field.
- 5) With 'Done' highlighted press the **ENT** Key, or press the **CLR** Key to accept the changes and exit the Terrain Setup window.

4.3 TRAFFIC

TRAFFIC SOURCE

If more than one traffic source is configured the current traffic source is annunciated in the upper left hand corner of the Traffic Page (TRF). When the GDU 37X is configured, with both a Mode S transponder capable of receiving TIS-A traffic and a GDL 39 capable of receiving ADS-B/TIS-B traffic the GDU 37X will automatically switch between traffic sources.

Traffic Source	Description
	Displaying TIS-A traffic from a Mode S transponder.
	Displaying ADS-B/TIS-B traffic from a GDL 39

Traffic Source Annunciation

TRAFFIC INFORMATION SERVICE (TIS-A)

Displaying Traffic on the Traffic Page:

- 1) Turn the **FMS** Joystick to display the Traffic Page.
- 2) Use the down arrow on the **RNG** Key to zoom in (decreasing), or the up arrow to zoom out (increasing). Range is adjustable with the **RNG** Key from 2 nm to 40 nm, as indicated by the range rings.

Setting up and customizing TIS-A traffic on the map page:

From the Map Page press the **TRAFFIC** Softkey to toggle traffic on/off.

Or:

- 1) From the Map Page press the **MENU** Key.
- 2) Turn or move the **FMS** Joystick to highlight 'Set Up Map' and press the **ENT** Key.

- 3) Turn the **FMS** Joystick to select the 'Map' Category from the horizontal list.
- 4) Move the **FMS** Joystick to highlight the 'TRAFFIC DATA' Field.
- 5) Turn the **FMS** Joystick to access a list of options for each feature (On/Off).
- 6) Using the **FMS** Joystick select the desired option and press the **ENT** Key.
- 7) Press the **FMS** Joystick, the **CLR** Key, or the **EXIT** Softkey to return to the Map Page with the changed settings.

Displaying TIS-A information using the map pointer:

- 1) With traffic displayed on the Map Page, press the **FMS** Joystick. The Map Pointer is activated.
- 2) Move the **FMS** Joystick to highlight the desired traffic.

DATA LINK TRAFFIC (GDL 39) (GDU 370 OR 375)

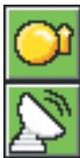
Viewing the GDL 39 Traffic and Weather Status:

- 1) Press the **MENU** Key twice to display the Main Menu.
 - 2) Turn or move the **FMS** Joystick to highlight 'Data Link' and press the **ENT** Key.
 - 3) To view weather status select the **WEATHER** Softkey.
- Or**
- 1) From the dedicated Traffic Page (TRF) select the **INFO** Softkey.
 - 2) To view weather status select the **WEATHER** softkey.

SYSTEM STATUS

The traffic system status is annunciated in the upper right corner of the Map Page.

System Status	Traffic Icon
Operating TIS-A/TAS	
No Traffic Data Available from TIS-A/TAS	

<p>Full traffic services available for an ADS-B participating aircraft (ground linked TIS-B, FIS-B and ADS-R, and Air-to-Air ADS-B). If you are using the GDL 39 on a non-participating aircraft you may still see this when you are within the service area of any participating aircraft. As a non-participating aircraft you are only receiving TIS-B traffic information for traffic within 15 nm and 3,500' of a participating aircraft.</p>	
<p>Limited traffic services available (may be limited to Air-to-Air ADS-B)</p>	
<p>No Traffic Data Available</p>	

Traffic Modes

DISPLAYING TRAFFIC DATA

Traffic is displayed by default on the Map Page and the Traffic Warning Window.

Enabling/disabling traffic data on the Map Page:

- 1) From the Map Page, press the **MENU** Key.
- 2) Turn or move the **FMS** Joystick to highlight 'Set Up Map', and press the **ENT** Key.
- 3) If necessary, turn the **FMS** Joystick to highlight the 'Map' Category from the horizontal list.
- 4) Move the **FMS** Joystick to highlight the 'Traffic Data' field.
- 5) Turn the **FMS** Joystick to select 'ON' or 'OFF' from the menu, and press the **ENT** Key.

Or:

- 1) From the Map Page, press the **TRAFFIC** Softkey to enable or disable traffic.

Displaying Traffic information using the map pointer:

- 1) With traffic displayed on the Map Page, press the **FMS** Joystick. The Map Pointer is activated.
- 2) Move the **FMS** Joystick to highlight the desired traffic.

DEDICATED TRAFFIC PAGE (TRF)



NOTE: Traffic alerts and altitude filters can only be changed on the dedicated Traffic Page (TRF). If the Traffic Page (TRF) is configured off audio alerts are enabled and the altitude filter is automatically set to 'Normal'

Displaying/Removing the Traffic Page:

- 1) Press the **MENU** Key twice to display the Main Menu.
- 2) Turn or move the **FMS** Joystick to highlight 'System Setup...' and press the **ENT** Key.
- 3) Turn or move the **FMS** Joystick to highlight 'Display', and press the **ENT** Key.
- 4) Move the **FMS** Joystick to highlight the Traffic Page field.
- 5) Turn the **FMS** Joystick to highlight 'Show' or 'Hide'.
- 6) Press the **FMS** Joystick, the **CLR** Key, the **EXIT** Softkey or the **MENU** Key to return to the previous page.

Enabling/Disabling Flight ID Display:

On the Traffic Page, press the **FLT ID** Softkey.

Changing the altitude range:

- 1) On the Traffic Page, select the **ALT MODE** Softkey.
- 2) Press one of the following Softkeys:
 - **ABOVE:** Displays non-threat and proximity traffic from 9000 feet above the aircraft to 2700 feet below the aircraft. Typically used during climb phase of flight.

- **NORMAL:** Displays non-threat and proximity traffic from 2700 feet above the aircraft to 2700 feet below the aircraft. Typically used during enroute phase of flight.
 - **BELOW:** Displays non-threat and proximity traffic from 2700 feet above the aircraft to 9000 feet below the aircraft. Typically used during descent phase of flight.
 - **UNREST** (unrestricted): All traffic is displayed.
- 3) To return to the Traffic Page, press the **BACK** Softkey.

Blank Page

SECTION 5 ADDITIONAL FEATURES

5.1 SAFETAXI

Enabling/disabling SafeTaxi:

- 1) With the Map Page displayed, press the **MENU** Key. The Map Page Menu is displayed.
- 2) Turn or move the **FMS** Joystick to highlight 'Set Up Map' and press the **ENT** Key.
- 3) Turn the **FMS** Joystick to highlight the 'Airport' Category from the horizontal list.
- 4) Move the **FMS** Joystick to highlight the 'Safe Taxi' Field.
- 5) Turn the **FMS** Joystick to access the menu options.
- 6) Turn or move the **FMS** Joystick to select 'On' or 'Off', and press the **ENT** Key.

5.2 CHARTVIEW (OPTIONAL)

Displaying ChartView:

- 1) With the Waypoint (WPT) Page displayed, press the **CHART** Softkey.
- 2) Press the **FMS** Joystick to activate the cursor.
- 3) Move the **FMS** Joystick to highlight the Airport Identifier Field and use the **FMS** Joystick to begin entering the desired airport.
Or:
 - a) Move the **FMS** Joystick to highlight the Chart Field.
 - b) Turn the **FMS** Joystick to access a drop-down menu of available charts.
 - c) Turn or move the **FMS** Joystick to select the desired chart, and press the **ENT** Key.**Or:**
 - 1) From the Active Flight Plan Page (with a waypoint entered), press the **SEL APPR** Softkey. The Select Approach Window is displayed.

- 2) Press the **MENU** Key.
- 3) Turn or move the **FMS** Joystick to select 'Show Chart', and press the **ENT** Key. The selected chart is displayed.
- 4) Press the **EXIT** Softkey to return to the previous page.

Or:

- 1) From the Map Page or Active Flight Plan Page, use the Map Pointer to highlight the desired airport and press the **ENT** Key. The Airport Information Window is displayed.
- 2) Press the **CHART** Softkey.
- 3) With the 'Chart' Field highlighted, turn the **FMS** Joystick to access a drop-down menu of available charts.
- 4) Turn or move the **FMS** Joystick to select the desired chart, and press the **ENT** Key.

Changing the chart range:

Use the down arrow on the **RNG** Key to zoom in (decreasing), or the up arrow to zoom out (increasing). Move the **FMS** Joystick to scroll the chart up, down, left, or right.

Or:

To quickly zoom all the way out, press the **CHART** Softkey. Press it again to return to the previous range (only available from the Waypoint Page).

5.3 FLITECHARTS

Displaying FliteCharts:

- 1) With the Waypoint (WPT) Page displayed, press the **CHART** Softkey.
- 2) Press the **FMS** Joystick to activate the cursor.
- 3) Move the **FMS** Joystick to highlight the Airport Identifier Field and use the **FMS** Joystick to enter the desired airport.

Or:

- a) Move the **FMS** Joystick to highlight the Chart Field.
- b) Turn the **FMS** Joystick to access a drop-down menu of available charts.
- c) Turn or move the **FMS** Joystick to select the desired chart, and press the **ENT** Key.

Or:

- 1) From the Active Flight Plan Page or the Select Approach Window, press the **MENU** Key.
- 2) Turn or move the **FMS** Joystick to select 'Show Chart', and press the **ENT** Key. The selected chart is displayed.
- 3) Press the **EXIT** Softkey to return to the previous page.

Or:

- 1) From the Map Page or Active Flight Plan Page, use the Map Pointer to highlight the desired airport and press the **ENT** Key. The Airport Information Window is displayed.
- 2) Press the **CHART** Softkey.
- 3) With the 'Chart' Field highlighted, turn the **FMS** Joystick to access a drop-down menu of available charts.
- 4) Turn or move the **FMS** Joystick to select the desired chart, and press the **ENT** Key.

Changing the chart range:

Use the down arrow on the **RNG** Key to zoom in (decreasing), or the up arrow to zoom out (increasing). Move the **FMS** Joystick to scroll the chart up, down, left, or right.

Or:

To quickly zoom all the way out, press the **CHART** Softkey. Press it again to return to the previous range.

5.4 AIRPORT DIRECTORY DATA

Viewing Airport Directory information:

From the Waypoint (WPT) Page, press the **AOPA** or **DIRECTORY** Softkey.

Or:

- 1) From any map highlight an airport using the Map Pointer, and press the **ENT** Key. The Airport Information Window is displayed.
- 2) Press the **AOPA** or **DIRECTORY** Softkey.
- 3) To return to the map, press the **ENT** Key, the **CLR** Key, or the **FMS** Joystick.

5.5 SIRIUSXM RADIO ENTERTAINMENT (GDU 375)

Selecting the XM Audio Page:

- 1) Press the **FMS** Joystick to interact with the page navigation bar.
- 2) Turn the **FMS** Joystick to select the XM Audio Page.

Selecting a category:

- 1) Select the **CATEGORY** Softkey on the XM Audio Page. The Category Field is highlighted.
- 2) Turn the **FMS** Joystick to highlight the desired category.

Or:

- 1) Press the **FMS** Joystick to activate the cursor. Move the **FMS** Joystick to highlight the Category Field (if necessary).
- 2) Turn the **FMS** Joystick to highlight the desired category.

Press and hold the **CATEGORY** Softkey to view the 'All Channels' Category.

Selecting a channel from the channel list:

- 1) From the XM Audio Page, select the **CHANNEL** Softkey. The Channel Field is highlighted.
- 2) Turn the **FMS** Joystick to highlight the desired channel and press the **ENT** Key.

Or:

- 1) Press the **FMS** Joystick. Move the **FMS** Joystick to highlight the Channel Field (if necessary).
- 2) Turn the **FMS** Joystick to highlight the desired channel and press the **ENT** Key.

To add a channel to Favorites:

- 1) With the favorites channel selected, press the **MENU** Key.
- 2) With 'Add To Favorites' selected, press the **ENT** Key.
- 3) With 'Yes' selected, press the **ENT** Key.

Selecting Favorites:

- 1) Select the **FAVORITE** Softkey on the XM Audio Page. The Favorites category is displayed.

- 2) Press the **FMS** Joystick to activate the cursor.
- 3) Move the **FMS** Joystick to select the desired channel and press the **ENT** Key.

Or:

- 1) Press the **FMS** Joystick to activate the cursor. Move the **FMS** Joystick to highlight the Category Field (if necessary).
- 2) Turn the **FMS** Joystick to highlight the Favorites category.
- 3) Move the **FMS** Joystick to select the desired channel and press the **ENT** Key.

To delete a channel from Favorites:

- 1) With the Favorites channel selected, press the **MENU** Key.
- 2) With 'Delete Favorite' selected, press the **ENT** Key.

Or:

Highlight 'Delete All Favorites' and press the **ENT** Key to delete all channels from the Favorites list.

Adjusting the volume:

- 1) With the XM Audio Page displayed, select the **VOLUME** Softkey.
- 2) Select the **VOL –** Softkey to reduce volume or select the **VOL +** Softkey to increase volume.

Or:

Turn the **FMS** Joystick 'right' to increase the volume or 'left' to decrease the volume.

Muting XM Audio:

- 1) With the XM Audio Page displayed, select the **VOLUME** Softkey.
- 2) Select the **MUTE** Softkey to mute the audio. Select the **MUTE** Softkey again to unmute the audio.

Or:

Press and hold the **VOLUME** Softkey to mute and unmute the audio.

5.6 ELECTRONIC CHECKLISTS



NOTE: The information described in this section is not intended to replace the checklist information described in the AFM.



NOTE: Garmin does not create, modify, or update GDU 37X checklists and thus cannot be responsible for the availability and/or content.



NOTE: Checklists cannot be edited from within the unit.

The GDU 37X is capable of displaying checklists (if available from the aircraft manufacturer) which allow a pilot to quickly find the proper procedure on the ground and during each phase of flight. The GDU 37X accesses the checklist file (*.ace) from the root directory (/*.ace) of the SD card. If a checklist file is available on the SD card, the 'Checklists' Main Menu Option will appear.

5.7 FLIGHT DATA LOGGING

The flight data logging feature automatically stores flight data to an SD card. Data is recorded to the SD card every second. A data file is created each time the system is powered on with an SD card inserted, or each time an SD card is inserted after power on. A 2 GB SD card can store over 1,000 hours of flight data or up to 1,000 files (whichever comes first). The data files stored on the SD card have an extension of .csv. This file format can be opened using a spread sheet application on a personal computer.

SECTION 6 APPENDICES

MESSAGES, ALERTS & DATA FIELD OPTIONS

Overview

GPS Navigation

Flight Planning

Hazard Avoidance

Additional Features

Appendices

Index

SYSTEM STATUS MESSAGES (INFO PAGE)

The following system status messages will appear on the Info Page.

- GPS Antenna Not Connected
- GPS Antenna Shorted to Ground
- XM Receiver Needs Service
- Terrain Database Missing
- Obstacle Database Missing
- Navigation Database Missing
- Using Internal GPS Flight Plan For Navigation
- Demo Mode - Do not use for navigation

The 'INFO' Page on the Page Navigation Bar will flash yellow to alert the pilot when a system status message is issued.

Accessing the Info Page system status messages:

- 1) When the 'INFO' Page on the Page Navigation Bar is flashing, use the **FMS** Joystick to access the Info Page.
- 2) Press the yellow **MESSAGES** Softkey. The Messages Page is displayed.
- 3) To return to the Info Page, press the **FMS** Joystick, **CLR** Key, or **EXIT** Softkey. The Info Page will stop flashing, but remain yellow until the message is resolved.

MISCELLANEOUS MESSAGE ADVISORIES

Message	Comments
Approaching Target Altitude	Within 200 feet of final VNAV target altitude.
Approaching VNAV Profile	The aircraft is within one minute of reaching the initial VNAV decent point.
Arriving at XXX	The aircraft is nearing the destination.
Can't Unlock Maps	No applicable unlock code for one or more maps was found. All MapSource maps are not accessible.
Database Error	Internal problem with the system. Contact your dealer or Garmin Product Support to have the unit repaired.
Fuel Tank	A reminder for switching fuel tanks. The reminder message repeats at the specified interval after the beginning of each trip.
Lost Satellite Reception	The system is unable to receive satellite signals.
Memory Full	System memory is full, no further data can be saved.
Proximity Alarm XXXXX	You have reached the distance set for a proximity waypoint.
Next DTK XXX	The aircraft is nearing a turn in a route.
No XM Signal	The XM antenna is not receiving a signal.
Proximity Alarm Memory Full	No additional proximity waypoints can be saved.
Proximity Waypoints Overlap	The radi of two proximity waypoints overlap.
Route Already Exists	A route with the same name already exists.
Route Memory Full	No additional routes can be saved.
Route Truncated	Uploaded route from another device has more than 300 waypoints.
Route Waypoint Memory Full	No additional route waypoints can be saved.
Saving XM Program Information	An XM Radio channel lineup change has occurred and the unit is saving the channel lineup to memory.
Steep Turn Ahead	Approaching a turn that requires a bank angle in excess of 25 degrees to stay on course.

MISCELLANEOUS MESSAGE ADVISORIES (CONT.)

Message	Comments
Track Already Exists	A saved track with the same name already exists.
Track Log Full	The track log is full and track recording was turned off. To record more track points, you need to clear the track log and turn track recording on.
Track Memory Full	No more track data can be stored. Delete the old track data to store the new data.
Track Truncated	A complete uploaded track will not fit in memory. The oldest track log points have been deleted.
Transfer Complete	Data transfer was completed.
VNAV Cancelled	VNAV function has been cancelled due to a change in the active route.
Waypoint Already Exists	A waypoint with the same name already exists.
Waypoint Memory Full	The unit has stored the maximum number of waypoints.

AIRSPACE MESSAGES

Message	Comments
Inside Airspace	Inside the boundaries of the airspace.
Airspace Near and Ahead	Within two nautical miles of an airspace and your current course takes you inside the airspace.
Airspace Ahead, Within 10 Minutes	The projected course takes you inside an airspace within the next 10 minutes or less.
Airspace Near, Within 2 nm	Within two nautical miles of an airspace but not projected to enter it.

AURAL ALERTS

TRAFFIC

- "Traffic"—TIS traffic alert received.
- "Traffic Not Available"—TIS service is not available or out of range.

TERRAIN

- "Five Hundred"—when the aircraft descends through 500 feet above the destination airport.

The following aural terrain alerts are issued when flight conditions meet parameters that are set within the software algorithms, and are dependent on the sensitivity level set in the Terrain Setup Menu.

Alert Severity	Terrain	Obstacle	Descent Rate
Caution	"caution, terrain" "caution, terrain ahead"	"caution, obstacle" "caution, obstacle ahead"	"caution, sink rate"
Warning	"terrain ahead! pull up!" "terrain! terrain! pull up! pull up!"	"obstacle ahead! pull up!" "obstacle! obstacle! pull up! pull up!"	"sink rate, pull up!" "pull up!"

Aural Alerts Summary

DATA BAR FIELD OPTIONS

Data Bar Field	Definition
BRG - Bearing to Waypoint	The compass direction from the present position to the next waypoint.
CLG - Climb Gradient (Percent)	Current climb gradient (climb rate divided by groundspeed) in percent.
CLM - Climb Gradient (ALT/NM)	Current climb gradient (climb rate divided by groundspeed) in altitude per nautical mile.

DATA BAR FIELD OPTIONS (CONT.)

Data Bar Field	Definition
DST - Distance to Waypoint	The distance to the next waypoint in the Active Flight Plan.
DTK - Desired Track	The desired course between the active "from" and "to" waypoints.
ESA - En Route Safe Altitude	The recommended minimum altitude within ten miles left or right of the desired course on an active flight plan or direct-to.
ETA - Estimated Time of Arrival	The estimated time at which the aircraft should reach the next waypoint, based upon current ground speed and track.
ETE - Estimated Time En Route	The estimated time it takes to reach the next waypoint from the present position, based upon current ground speed.
FLT - Flight Time	The total time in flight.
GR - Glide Ratio	Current Glide Ratio
GS - Ground Speed	The velocity that the aircraft is traveling relative to a ground position.
LCL - Time of Day (Local)	The current time and date in 12-hour or 24-hour format.
MSA - Minimum Safe Altitude	Uses Grid MORAs to determine a safe altitude within ten miles of the aircraft's present position.
TRK - Ground Track	Direction of aircraft movement relative to a ground position.
UTC - Time	The current time and date in Universal (UTC) time.
VSR - Vertical Speed Required	The vertical speed necessary to descend/climb from the current position and altitude to the previously selected VNAV position and altitude, based upon current ground speed.

DATA BAR FIELD OPTIONS (CONT.)

Data Bar Field	Definition
WPT - Next Waypoint	The next waypoint in the flight plan or direct-to route.
XTK - Crosstrack Error	The distance the aircraft is from a desired course in either direction, left or right.

INFO PAGE DATA FIELD OPTIONS (FULL-SCREEN)

Info Page Data Field Option	Definition
Accuracy	The current accuracy of the GPS determined location.
Altitude (GPS ALT)	The current altitude in geometric height above Mean Sea Level (MSL).
Bearing (BRG)	The compass direction from the present position to a destination waypoint.
Climb Gradient (Percent) (CLG)	Current climb gradient in (climb rate divided by groundspeed) in percent.
Climb Gradient (ALT/NM) (CLM)	Current climb gradient (climb rate divided by groundspeed) in altitude per nautical mile.
Course to Steer (CTS)	The recommended direction to steer in order to reduce cross-track error and return to the course line.
Crosstrack Error (XTK)	The distance the aircraft is off a desired course in either direction, left or right.
Desired Track (DTK)	The desired course between the active "from" and "to" waypoints.
Distance (Destination) (DIST DEST)	The distance to the destination waypoint in the Active Flight Plan.
Distance (Next) (DIST NEXT)	The distance to the next waypoint in the Active Flight Plan.
En Route Safe Altitude (ESA)	The recommended minimum altitude within ten miles left or right of the desired course on a active flight plan or direct-to.

INFO PAGE DATA FIELD OPTIONS (FULL-SCREEN) (CONT.)

Info Page Data Field Option	Definition
Estimated Time En Route (Destination) (ETE DEST)	The estimated time it takes to reach the destination waypoint from the present position, based upon current ground speed.
Estimated Time En Route (Next) (ETE NEXT)	The estimated time it takes to reach the next waypoint from the present position, based upon current ground speed.
Estimated Time of Arrival (Destination) (ETA DEST)	The estimated time at which the aircraft should reach the destination waypoint, based upon current speed and track.
Estimated Time of Arrival (Next) (ETA NEXT)	The estimated time at which the aircraft should reach the next waypoint, based upon current speed and track.
Estimated Time to VNAV (VNAV TIME)	The estimated time it takes to reach the VNAV waypoint from the present position, based upon current ground speed.
Flight Timer (FLT TIMER)	Total time in-flight (HH:MM).
Fuel Tank Timer (FUEL TIMER)	Elapsed time since the Fuel Tank Reminder Alarm was last issued (HH:MM).
Glide Ratio (G/R)	The estimated distance an aircraft will move forward for any given amount of lost altitude.
Ground Speed	The velocity that the aircraft is traveling relative to a ground position.
Ground Track (TRK)	The direction of aircraft movement relative to a ground position.
Minimum Safe Altitude (MSA)	Uses Grid MORAs to determine a safe altitude within ten miles of the aircraft's present position.
Next Waypoint	The next waypoint in the flight plan or direct-to route.
Sunrise	The time at which the sun rises on this day (current location).

INFO PAGE DATA FIELD OPTIONS (FULL-SCREEN) (CONT.)

Info Page Data Field Option	Definition
Sunset	The time at which the sun sets on this day (current location).
Time (UTC)	The current time and date in Universal (UTC) time.
Time of Day (Local)	The current time and date in 12-hour or 24-hour format.
Vertical Speed (VS)	The rate of climb or descent (GPS-derived).
Vertical Speed Required (VSR)	The vertical speed necessary to descend/climb from the current position and altitude to the previously selected VNAV position and altitude, based upon current ground speed.
Weather (Altimeter) (WX ALTIM)	The altimeter setting at the nearest METAR reporting station.
Weather (Dew Point) (WX DEW PT)	The dew point at the nearest weather reporting station.
Weather (Rel. Humidity) (WX HUMIDITY)	The relative humidity at the nearest weather reporting station.
Weather (Temperature) (WX TEMP)	The temperature at the nearest weather reporting station.
Weather (Wind) (WX WIND)	The wind speed and direction at the nearest weather reporting station.

UTILITIES

FLIGHT LOG

Viewing details for a flight:

- 1) Press the **MENU** Key twice to display the Main Menu.
- 2) Turn or move the **FMS** Joystick to select 'Flight Log', and press the **ENT** Key. (Hours and minutes can be displayed by pressing the **MENU** Key and selecting 'Show Hours and Minutes').
- 3) Turn or move the **FMS** Joystick to select the desired flight from the list, and press the **ENT** Key. Route, date, hours, distance, and actual flight path is displayed.
- 4) With 'Done' selected, press the **ENT** Key to return to the previous page.

Deleting flight records:

- 1) Press the **MENU** Key twice to display the Main Menu.
- 2) Turn or move the **FMS** Joystick to select 'Flight Log', and press the **ENT** Key.
- 3) Select the desired flight (if applicable), and press the **MENU** Key.
- 4) Turn or move the **FMS** Joystick to select 'Delete Flight' or 'Delete All', and press the **ENT** Key.

TRACK LOG

Displaying/removing the track log on the Map Page:

- 1) From the Map Page, press the **MENU** Key. The Map Page Menu is displayed.
- 2) Turn or move the **FMS** Joystick to select 'Set Up Map' from the Map Page Menu, and press the **ENT** Key.
- 3) Turn the **FMS** Joystick to highlight the 'Line' options from the horizontal list.
- 4) Move the **FMS** Joystick to highlight the 'Track Log' field.
- 5) Turn the **FMS** Joystick to select 'On' or 'Off', and press the **ENT** Key.
- 6) Press the **FMS** Joystick, the **CLR** Key, or the **EXIT** Softkey to return to the Map Page.

Changing track log settings:

- 1) Press the **MENU** Key twice.
- 2) Turn or move the **FMS** Joystick to select 'Track Log' from the Main Menu, and press the **ENT** Key.
- 3) Move the **FMS** Joystick to highlight the desired field.
- 4) Turn the **FMS** Joystick to select the desired setting.

Clearing the track log:

- 1) Press the **MENU** Key twice.
- 2) Turn or move the **FMS** Joystick to select 'Track Log' from the Main Menu, and press the **ENT** Key.
- 3) Move the **FMS** Joystick to highlight the desired saved track, and press the **CLEAR** Softkey. (Or press the **MENU** Key, with 'Clear Active Track' selected, press the **ENT** Key.) The 'Clear Active Track Log?' window is displayed.
- 4) With 'Yes' selected, press the **ENT** Key.

Saving a track log:

- 1) Press the **MENU** Key twice.
- 2) Turn or move the **FMS** Joystick to select 'Track Log' from the Main Menu, and press the **ENT** Key.
- 3) Press the **SAVE** Softkey. (Or press the **MENU** Key, with 'Save Active Track' selected, press the **ENT** Key.) The 'Save Active Track?' window is displayed.
- 4) Turn the **FMS** Joystick to select 'Entire Active Track', 'Past 24 Hours', 'Past 7 Days', or 'Specify Dates'.
- 5) Move the **FMS** Joystick to highlight 'Save' and press the **ENT** Key.

Editing a track log:

- 1) Press the **MENU** Key twice.
- 2) Turn or move the **FMS** Joystick to select 'Track Log' from the Main Menu, and press the **ENT** Key.
- 3) Move the **FMS** Joystick to highlight the desired saved track, and press the **ENT** Key.
- 4) Move the **FMS** Joystick to highlight the desired field.
- 5) Turn the **FMS** Joystick to make the desired changes.
- 6) With 'Done' selected, press the **ENT** Key.

HEADING LINE

Changing the heading line settings on the Map Page:

- 1) From the Map Page, press the **MENU** Key. The Map Page Menu is displayed.
- 2) Turn or move the **FMS** Joystick to select 'Set Up Map' from the Map Page Menu, and press the **ENT** Key.
- 3) Turn the **FMS** Joystick to highlight the 'Line' options from the horizontal list.
- 4) Move the **FMS** Joystick to highlight the 'Heading Line' field.
- 5) Turn the **FMS** Joystick to select 'On/Off', 'Distance', or 'Time' and press the **ENT** Key. If necessary, move the **FMS** Joystick to set the desired time or distance, and press the **ENT** Key.
- 6) Press the **FMS** Joystick, the **CLR** Key, or the **EXIT** Softkey to return to the Map Page.

E6B CALCULATOR

Accessing the E6B calculator:

- 1) Press the **MENU** Key twice to open the Main Menu.
- 2) Turn or move the **FMS** Joystick to highlight 'E6B Calculator', and press the **ENT** Key. The E6B Calculator Page is displayed.

Calculating true airspeed and density altitude:

- 1) From the E6B Calculator Page, enter the altitude shown on the altimeter into the 'Indicated Altitude' field, and press the **ENT** Key.
- 2) Repeat for 'Calibrated Airspeed', 'Baro Pressure', and 'Total Air Temperature' fields. (For Calibrated Airspeed, use the speed shown on the airspeed indicator. Use the current altimeter setting for Baro Pressure. Total Air Temperature is the temperature of the outside air including the heating effect caused by speed. For most aircraft, this is the temperature reading on a standard outside air temperature gauge.) The calculated figures for True Airspeed and Density Altitude are shown in the designated fields.

Calculating winds aloft:

- 1) Calculate or enter the true airspeed into the 'True Airspeed' field, and press the **ENT** Key.
- 2) Enter the aircraft heading shown on the directional gyro or compass into the 'Heading' field, and press the **ENT** Key. Head Wind, Wind From, and Wind Speed are calculated.

Restoring E6B calculator defaults:

- 1) From the E6B Calculator Page, press the **MENU** Key.
- 2) With 'Restore Default' highlighted, press the **ENT** Key.

WEIGHT & BALANCE

To perform weight and balance calculations:

- 1) Press the **MENU** Key twice to open the Main Menu.
- 2) Turn or move the **FMS** Joystick to highlight 'Weight & Balance', and press the **ENT** Key.
- 3) Move the **FMS** Joystick to select the desired station.
- 4) Turn the **FMS** Joystick to enter the desired weight and press the **ENT** Key.
- 5) Repeat Steps 3 and 4 using the **FMS** Joystick to enter the desired weights. Press the **ENT** Key after each entry. The calculated moment, weight, and CG figures appear at the bottom of the page.
- 6) To empty the aircraft, press the **MENU** Key and select 'Empty Aircraft', or press the **EMPTY** Softkey.

To reset weight & balance page:

- 1) From the Weight & Balance page, press the **MENU** Key.
- 2) Turn or move the **FMS** Joystick to highlight 'Empty Aircraft', and press the **ENT** Key. "Empty All Stations?" window is displayed.

Or:

Press the **EMPTY** Softkey. "Empty All Stations?" window is displayed.

- 3) With 'Yes' highlighted, press the **ENT** Key.

PROXIMITY WAYPOINTS

Defining proximity waypoints:

- 1) Press the **MENU** Key twice to open the Main Menu.
- 2) Turn or move the **FMS** Joystick to highlight 'User Waypoints', and press the **ENT** Key.
- 3) Press the **PROXIMITY** Softkey. The Proximity Waypoints Page is displayed.
- 4) Press the **NEW** Softkey. The New Proximity Waypoint Window is displayed.
- 5) Select 'Use Map' or 'Use Identifier', and press the **ENT** Key.
- 6) Select the desired waypoint using the Map or Select Waypoint Window, and press the **ENT** Key. The 'Distance' field is highlighted.
- 7) Using the **FMS** Joystick, enter the desired distance and press the **ENT** Key.

Setting up and customizing proximity waypoints for the map page:

- 1) Press the **MENU** Key twice to open the Main Menu.
 - 2) Turn or move the **FMS** Joystick to highlight 'User Waypoints', and press the **ENT** Key.
 - 3) Press the **PROXIMITY** Softkey. The Proximity Waypoints Page is displayed.
 - 4) Turn the **FMS** Joystick to select 'On' or 'Off', and press the **ENT** Key.
- Or:**
- 1) From the Map Page press the **MENU** Key.
 - 2) Turn or move the **FMS** Joystick to highlight 'Set Up Map' and press the **ENT** Key.
 - 3) Turn the **FMS** Joystick to select the 'Point' from the horizontal list.
 - 4) Move the **FMS** Joystick to highlight the 'Proximity Circle' Field.
 - 5) Turn the **FMS** Joystick to access a list of options for each feature (On/Off, Auto, or range settings).
 - 6) Highlight the desired setting and press the **ENT** Key.

Deleting proximity waypoints:

- 1) Press the **MENU** Key twice to open the Main Menu.
- 2) Turn or move the **FMS** Joystick to highlight 'User Waypoints', and press the **ENT** Key.
- 3) Press the **PROXIMITY** Softkey. The Proximity Waypoints Page is displayed.
- 4) Press the **CLR** Key or **MENU** Key and select 'Remove Selected Waypoint' or 'Remove All Waypoints'.
- 5) Press the **ENT** Key. The 'Remove Proximity Waypoint for XXXX' Window is displayed.
- 6) With 'Yes' highlighted, press the **ENT** Key.

DISPLAY SYMBOLS

VFR SYMBOLS

Item	Symbol
Unknown	
Non-towered, Non-serviced	
Towered, Non-serviced	
Non-towered, Serviced	
Towered, Serviced	
Soft Surface, Non-serviced	
Soft Surface, Serviced	
Soft Surface, Private	
Paved, Private	
Seaplane Base	
Heliport	

Americas/Pacific Database Airports

Item	Symbol
Civilian, Non-serviced	
Military, Non-serviced	
Civilian, Serviced	
Military, Serviced	
Civilian, Soft/Unknown Surface, Non-serviced	
Civilian, Soft/Unknown Surface, Serviced	

Atlantic Database Airports

Item	Symbol
Intersection	
Visual Reporting Point	
LOM (compass locator at outer marker)	
NDB (non-directional radio beacon)	
VOR	
VOR/DME	
ILS/DME or DME only	
VORTAC	
TACAN	

Nav aids

Item	Symbol
Interstate Highway	
US Highway	
State Highway	
National Highway	
Small City	
Medium City	
Large City	

Miscellaneous

IFR SYMBOLS

Item	Symbol
VFR, Soft/unknown Surface, Non-serviced	
VFR, Soft/unknown Surface, Serviced	

Atlantic Database Airports

Item	Symbol
Low-Altitude	
High-Altitude	

Airways

Item	Symbol
Unknown	
VFR Airport, Non-serviced	
IFR Airport, Non-serviced	
VFR Airport, Serviced	
IFR Airport, Serviced	
VFR, Soft Surface, Non-serviced	
VFR, Soft Surface, Serviced	
VFR, Soft Surface, Private	
VFR, Paved, Private	
VFR Seaplane Base	
VFR Heliport	

Americas/Pacific Database Airports

Item	Symbol
Intersection	
LOM (compass locator at outer marker)	
NDB (non-directional radio beacon)	
VOR	
VOR/DME	
ILS/DME or DME Only	
VORTAC	
TACAN	

Nav aids

AIRSPACE SYMBOLS

Item	Symbol
Class B, Class E, CTA	
Class A, Class C, TMA	
Class D	
Mode C Veil	
TRSA	
MOA	
Danger, Alert, or Training Area	
Restricted, Prohibited, or Warning Area	
Radar Area	
ATZ, TIZ	
MATZ	
ADIZ	
Misc/Unknown	

VFR Americas/Pacific Database

Item	Symbol
Class B, Class E, CTA	
Class A, Class C, TMA, TRSA	
Class D	
MOA	
Danger, Alert, or Training Area	
Restricted, Prohibited, or Warning Area	
Radar Area	
ATZ, TIZ	
Misc/Unknown	

IFR Americas/Pacific Database

Item	Symbol
Danger or Alert Area	
Restricted, Prohibited, or Warning Area	
Training Area	

VFR Atlantic Database Exceptions

Item	Symbol
Training Area	

IFR Atlantic Database Exceptions

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