

Garmin GTN-650 Quick Reference Guide



Common Function Keys



Back Cancel Current Operation



Menu Options for Current Screen



Enter Accept Current Operation

NAV/COMM OPERATIONS

SWITCH BETWEEN NAV/COMM

1. Push **Small Knob**

TUNE STANDBY FREQUENCY (TOUCH)

1. Touch **STBY** in **Frequency Pane**
2. Enter frequency on **Number Pad**
3. Touch **Enter** to load STBY frequency

TUNE STANDBY FREQUENCY (KNOB)

1. Turn **Small/Large Knob** to change STBY frequency

SWITCH ACTIVE/STBY FREQUENCY

1. Touch **COM/NAV** in **Frequency Pane**

SWITCH GPS/VLOC NAVIGATION

2. Hold **Home Button** for Default Nav. Page
3. Touch **CDI Function Key**
4. Annunciator will change between GPS and VLOC

SET 121.5 IN ACTIVE COM

1. Press & Hold **Volume Knob**

XPDR OPERATIONS

CHANGE OPERATING MODE

1. Touch **XPDR Pane**
2. Touch **Mode Function Key**
3. Select **Mode**
4. Touch **Enter** to activate Mode

CHANGE XPDR CODE

1. Touch **XPDR Pane**
2. Enter code on **Number Pad**
3. Touch **Enter** to activate code

XPDR IDENT

1. Touch **XPDR Pane**
2. Touch **IDENT Function Key**

VFR (1200) XPDR Code

1. Touch **XPDR Pane**
2. Touch **VFR Function Key**
3. Touch **Enter** to activate code

BASIC OPERATIONS

DISPLAY HOME PAGE

1. Press **Home Button**

DISPLAY MOVING MAP

1. Press **Home Button**
2. Touch **Map Function Key**

DECLUTTER MAP

1. Touch **Menu** on Moving Map
2. Touch/Drag **Map Detail Slider**

Garmin GTN-650 Quick Reference Guide

BASIC OPERATIONS (CONT.)

GO DIRECT WAYPOINT

1. Press **Direct Button**
2. Touch **Waypoint Tab**
3. Touch **Waypoint ID**
4. Enter Waypoint ID via **Keypad** or **Small/Large Knob**
5. Touch **Direct Button** to activate

GO DIRECT FLIGHT PLAN WAYPOINT

1. Press **Direct Button**
2. Touch **FPL Tab**
3. Touch **Waypoint ID**
4. Touch **Direct Button** to activate

GO DIRECT NEAREST AIRPORT

1. Press **Direct Button**
2. Touch **NRST APT Tab**
3. Touch **Airport ID**
4. Touch **Direct Button** to activate

FLIGHT PLAN OPERATIONS

OPEN FLIGHT PLAN PAGE

1. Press **Home Button**
2. Touch **Flight Plan Function Key**

CREATE NEW FLIGHT PLAN

1. From Flight Plan Page
2. Touch **Add Waypoint**
3. Enter Waypoint ID via **Keypad** or **Small/Large Knob**
4. Touch **Enter** to add Waypoint

ADD WAYPOINT INTO FLIGHT PLAN

1. From Flight Plan Page
2. Touch **Waypoint ID** to change
3. Touch **Insert Before** or **Insert After**
4. Enter Waypoint ID via **Keypad** or **Small/Large Knob**
5. Touch **Enter** to add Waypoint

ADD WAYPOINT AT END OF FLIGHT PLAN

1. See Create New Flight Plan

REMOVE WAYPOINT FROM FLIGHT PLAN

1. From Flight Plan Page
2. Touch **Waypoint ID** to change
3. Touch **Remove**
4. Touch **OK** to remove Waypoint

FLIGHT PLAN OPERATIONS (CONT.)

ACTIVATE FLIGHT PLAN LEG

1. From Flight Plan Page
2. Touch **Waypoint ID** to activate
3. Touch **Activate**
4. Touch **OK** to activate leg

SAVE FLIGHT PLAN

1. From Flight Plan Page
2. Touch **Menu**
3. Touch **Store**

VIEW SAVED FLIGHT PLANS

1. From Flight Plan Page
2. Touch **Menu**
3. Touch **Catalog**
4. Touch **Desired Flight Plan**
5. Touch **Desired Action** from list
 - a. Activate
 - b. Invert and Activate
 - c. Preview
 - d. Edit
 - e. Copy
 - f. Delete

APPROACH OPERATIONS

LOAD/ACTIVATE APPROACH

1. Touch **Menu**
2. Touch **Proc**
3. Touch **Approach**
4. Confirm Airport ID
5. Touch **Approach**
6. Touch **Desired Approach**
7. Touch **Transition**
8. Touch **Vectors** or **Desired Transition**
9. Touch **Load Approach** or **Activate Approach**
10. Touch **OK** if needed

ACTIVATE VECTORS-TO-FINAL

1. Touch **Menu**
2. Touch **Proc**
3. Touch **Activate Vectors to Final**

ENTER OBS/HOLD MODE

1. Hold **Home Button** for Default Nav. Page
2. Touch **OBS**
3. Confirm Waypoint ID
4. Set **External OBS** for Course

Garmin GTN-650 Quick Reference Guide

APPROACH OPERATIONS (CONT.)

EXIT OBS/HOLD MODE

1. Hold **Home Button** for Default Nav. Page
2. Touch **OBS** or **UNSUSP**

GROUND OPERATIONS

SAFETAXI DISPLAY

1. From the Moving Map Page on the Ground
2. Max Auto-Zoom is 1,000 feet
3. **Zoom-In** further to display Airport Environment during ground operations

ADVANCED OPERATIONS

WAYPOINT INFO FROM MOVING MAP

1. From Moving Map Page
2. Touch **Waypoint** on screen
3. Touch **Waypoint Info**

WAYPOINT INFO FROM FLIGHT PLAN

1. Press **Home Button**
2. Touch **Flight Plan**
3. Touch **Waypoint ID**
4. Touch **WPT Info**

WAYPOINT INFO

1. Info – General Information
2. Procedures – Departure/Arrival/Approach
3. Runways – Runway Info/PCL Frequency
 - a. Touch **PCL Frequency** to load in STBY
4. Preview – Airport Diagram
 - a. **Zoom-In** to view SafeTaxi Preview
5. FREQ – Relevant Frequency Info
 - a. Touch **Frequency** to load to STBY
6. WX Data – Waypoint Weather Data
7. NOTAMS – Not Available in ADS-B Data

VIEW TRAFFIC

1. Press **Home Button**
2. Touch **Traffic**

ADVANCED OPERATIONS (CONT.)

CONNECT FOREFLIGHT/GARMIN PILOT

1. Press **Home Button**
2. Touch **Down**
3. Touch **System**
4. Touch **Down**
5. Touch **Connex Setup**
6. Touch **Bluetooth Setup**
7. If Pairing shows Enabled
 - a. Start pairing on iPad
 - b. Follow instructions on both devices
8. If Pairing does not show Enabled
 - a. Touch **Manage Paired Devices**
 - b. Touch **Remove** on first device
 - c. Touch **Back**
 - d. Pairing should now show enabled
 - e. Start pairing on iPad
 - f. Follow instructions on both devices

TROUBLESHOOT IPAD CONNECTION

1. iPad previously Paired and not connecting
2. Press **Home Button**
3. Touch **Down**
4. Touch **System**
5. Touch **Down**
6. Touch **Connex Setup**
7. Touch **Bluetooth Setup**
8. Touch **Manage Paired Devices**
9. Device no longer listed
 - a. Delete Device Pair on iPad
 - b. Follow Connect ForeFlight/Garmin Pilot Steps
10. Device in list
 - a. Touch **Remove** from Device
 - b. Delete Device Pair on iPad
 - c. Follow Connect ForeFlight/Garmin Pilot Steps

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ADDITIONAL IMPORTANT INFORMATION

The steps and procedures outlined in this guide are structured so the Novice and Experienced user can effectively operate the Navigator in a safe manner.

The Quick Reference Guide is intended to supplement, not replace, a user's familiarization with the safe operation of the Navigator.

There are multiple ways to perform many actions within the Navigator, you are encouraged to develop and use the procedures that work for you.

The Navigator is designed, extends out of the panel, so the user may anchor their hand while operating the touch screen in turbulent air.

Any noted discrepancies should be reported to the club Safety Officer.

Training applications are available for use on a Computer or iPad. The information on where to find these applications along with other related information are posted on the Club website.

Your first interaction with the new equipment should not be in the air. Please familiarize yourself with the Navigator prior to your next planned flight.