




# GPS 165 TSO QUICK REFERENCE

 POWER CONTROL - Power on/off and backlight intensity. NOTE: Must be in off position to remove NavData® card.



DUAL KNOBS - Data entry and selection of options. Outer knob to select pages or move cursor. Inner knob to change cyclic field or display additional information of a given type.

CRSR CURSOR - Activate/de-activate the flashing cursor.

MSG MESSAGE - View system status messages.

CLR CLEAR - Cancel data entry item, blank entire field or reject confirmation field (ok?).

ENT ENTER - Complete data entry or accept a confirmation field.

D ▶ DIRECT TO - Plot a course from present position to a specified waypoint.

NRST NEAREST - View nearest waypoints of each category (starting with airports) and nearest Flight Service Stations.

SET SET - Customize unit operation to your preferences and view Satellite Status Page.

RTE ROUTE - Create, edit, activate and reverse routes. Select approaches, SIDs or STARS. Review route information.

WPT WAYPOINT - Select and review waypoint information, define proximity waypoints, list user waypoints and review waypoint comments.

NAV NAVIGATION - Select CDI Page, view present position information, perform trip planning/calculations, execute checklists, set timers.

GPS APPR External Switches - Activate approach functions. Select manual waypoint sequencing (hold) and desired inbound course.

GPS SECO

### Turning on....

- Rotate power control knob clockwise to turn on and to set desired display intensity.
- After self-test is complete, the Database Page is displayed.
- Review database to ensure information is current, then press ENT.
- Satellite Status Page is displayed as unit acquires satellites.
- Present position will automatically be displayed once a sufficient number of satellites are received.

### Viewing messages...

- The external message annunciator will flash to indicate a new message.
- Press MSG to view new message.
- Press MSG again to return to previous function.

### Selecting waypoint types...

- Press WPT.
- Rotate outer knob until "Select waypoint type" is displayed.
- Press CRSR.
- Rotate outer knob to place flashing cursor over desired type.
- Press ENT to select desired type.

### Viewing airport information...

- Select "apt?" as waypoint type.
- Select desired airport by identifier, city/state or facility name using dual knobs.
- Once selected, remove flashing cursor by pressing CRSR.
- Rotate outer knob to view various airport information pages.
- For pages with additional information (comm frequencies, runways) rotate inner knob to view.

### Viewing VOR or NDB information...

- Select "vor?" or "ndb?" as waypoint type.
- Select desired facility by identifier, city/state or facility name using dual knobs.
- Remove flashing cursor by pressing CRSR.
- Rotate outer knob to view VOR/NDB information pages.

### Viewing intersection information...

- Select "Int?" as waypoint type.
- Select desired intersection by identifier using dual knobs.
- Remove flashing cursor by pressing CRSR.
- Rotate outer knob to cycle between pages.

### Viewing user waypoint information...

- Select "user?" as waypoint type.
- Select desired user waypoint by identifier using dual knobs.
- Remove flashing cursor by pressing CRSR.
- Rotate outer knob to cycle between pages.

### Setting a Direct To course...

- Press Direct To.
- Enter identifier of destination using dual knob. NOTE: If previous Direct To was performed, press CLR to cancel previous GO TO waypoint.
- Press ENT.
- A confirmation page is displayed showing location of selected destination.
- Press ENT to confirm selection.
- The CDI Page is displayed showing navigation information to selected destination.

or,

- From a waypoint information page, press Direct To. NOTE: If more than one waypoint is displayed on waypoint information page, place flashing cursor on desired waypoint before pressing Direct To.
- A confirmation page is displayed showing location of selected destination.
- Press ENT to confirm selection.
- The CDI Page is displayed showing navigation information to selected destination.

### Viewing CDI Page...

- Press NAV.
- Rotate outer knob until CDI Page is displayed.

### Viewing present position...

- Press NAV.
- Rotate outer knob until Position Page is displayed.

### Viewing nearest waypoints...

- Press NRST.
- Rotate outer knob to select desired waypoint category.
- Rotate inner knob to view additional nearest waypoints for selected category.

### Setting a course Direct To a nearest waypoint...

- Select a nearest waypoint using "Viewing nearest waypoints" procedure above.
- Press Direct To. NOTE: For intersections and user waypoints, place flashing cursor on the desired waypoint before pressing Direct To.
- A confirmation page is displayed showing location of selected destination.
- Press ENT to confirm selection.
- The CDI Page is displayed showing navigation information to selected destination.

#### Creating user waypoints by latitude/longitude...

- Select "user?" as waypoint type.
- Enter identifier of new waypoint using dual knobs.
- Press ENT.
- The New Waypoint Page is displayed with flashing cursor on "enter posn?"
- Press ENT.
- Enter latitude of new waypoint using dual knobs.
- Press ENT.
- Enter longitude of new waypoint using dual knobs.
- Press ENT.
- Press ENT.
- Place flashing cursor over "ok?" using outer knob.

#### or, by reference from an existing waypoint...

- When New Waypoint Page is displayed, place flashing cursor on "ref wpt?" using outer knob.
- Press ENT.
- Enter identifier of reference waypoint using dual knobs.
- Press ENT.
- Enter bearing from reference waypoint to new waypoint.
- Press ENT.
- Enter distance from reference waypoint to new waypoint.
- Press ENT twice.

#### or, by reference from present position...

- When New Waypoint Page is displayed, place flashing cursor on "rng/brg from posn?" using outer knob.
- Press ENT.
- Enter bearing from present position to new waypoint.
- Press ENT.
- Enter distance from present position to new waypoint.
- Press ENT twice.

#### Creating waypoints with AutoStore™...

- Press NAV.
- Rotate outer knob to display Present Position Page.
- Press ENT.
- The AutoStore™ Page is displayed with a pre-assigned waypoint identifier ("###").
- If a different waypoint identifier is desired, rotate outer knob to place flashing cursor over pre-assigned identifier, enter new identifier with dual knobs and press ENT.
- With the flashing cursor over "ok?", press ENT to save new waypoint.

#### Creating routes...

- Press RTE.
- Rotate outer knob until Route Catalog Page is displayed (with "rte" in the upper left corner).
- Rotate inner knob until a blank route is shown. (The route operation field will automatically change from "activate?" to "edit?" when a blank route is selected.)
- Press CRSR to activate flashing cursor.
- Press ENT. The Route Review Page is displayed.
- Enter identifier of first route waypoint using dual knobs.
- Press ENT.
- A confirmation page is displayed showing location of selected waypoint.
- Press ENT to confirm selected waypoint.
- Repeat last four steps to continue adding waypoints to the route.
- Press RTE when all waypoints have been added.

#### Activating/reversing routes...

- Press RTE.
- Rotate outer knob until Route Catalog Page is displayed.
- Rotate inner knob to select desired route.
- Press CRSR to activate flashing cursor.
- Rotate inner knob to select "activate?" or "reverse?".
- Press ENT.

#### Selecting an approach...

- Activate Direct To course/Route that ends with an airport.
- Rotate outer knob until Approach Select Page is displayed.
- Rotate inner knob to view available approaches.
- Press CRSR to activate flashing cursor.
- Rotate outer knob to place flashing cursor over desired approach.
- Press ENT.
- If the Approach Select/IAF Page is displayed, select the desired IAF with dual knobs and CRSR. Press ENT when complete.
- Once activated, approach will replace destination airport.

#### Selecting SIDs/STARs...

- Activate route that begins with an airport (for SID), or ends with an airport (for STAR).
- Rotate outer knob until SID Select Page or STAR Select Page, as appropriate, is displayed.
- Select desired SID/STAR with dual knobs and CRSR. Press ENT when complete.
- If SID/STAR contains multiple en route or runway transitions, select desired transition with dual knobs and CRSR. Press ENT when complete.

#### Using checklists...

- Press Nav.
- Rotate outer knob until Navigation Menu 1 is displayed (with "Chklist?" in the lower right corner).
- Press CRSR to activate flashing cursor.
- Rotate outer knob to place flashing cursor over "Chklist?".
- Press ENT.
- Rotate inner knob to view available checklists.
- Press CRSR to activate flashing cursor.
- Rotate outer knob to place flashing cursor over desired checklist.
- Press ENT.
- The checklist is now active. Press ENT as you check each item on the checklist.
- Press NAV to exit checklist.

#### Setting navigation units...

- Press SET.
- Rotate outer knob until "posn" is displayed in upper left corner.
- Press CRSR to activate flashing cursor.
- Select desired position coordinate format using inner knob.
- Rotate outer knob to place flashing cursor to the right of "alt".
- Select feet or meters, for altitude, using inner knob.
- Rotate outer knob to place flashing cursor to the right of "nav".
- Select nautical, statute or metric units using inner knob.
- Continue selecting desired units for other items using the same procedure.
- When done, press CRSR to remove flashing cursor.

#### Turning off...

- Rotate power control knob completely counter-clockwise to turn unit off.  
**or,**
- The unit will automatically turn off when aircraft power is removed.
- If the optional battery pack is used, a "turning off" message will appear and the unit will count down 30 seconds. To cancel automatic turn off, press any key or rotate dual knob.

#### Definitions...

- Page - information displayed on entire screen.
  - Cursor - flashing area on page, activated by CRSR.
  - Field - area of screen that allows you to enter or change specific types of data.
- There are four types of fields:
- Numeric - accepts numbers only.
  - Alphanumeric - accepts letters and/or numbers.
  - Cyclic - allows viewing of available options.
  - Confirmation - allows approval of an action.