# 5 DIRECT-TO



The GTN 6XX Direct-To function can quickly set a course to any waypoint. If the pilot selects Direct-To to a waypoint that is in the flight plan, waypoint sequencing in the flight plan will resume upon reaching that waypoint. If the pilot selects Direct-To for a waypoint that is not in the flight plan, the flight plan will no longer be active but remains available. There are some fixes within procedures for which if a Direct-To is selected then the approach will not be active. For example, if you activate a Direct-To course to a waypoint between the FAF and the MAP and go Direct-To to that waypoint then approach guidance will not become active.

## 5.1 Direct-To Navigation

1. Press the **Direct-To** key on the right side of the unit.

**Figure 5-1 Direct-To Wpt Page**

2. Select **Waypoint**, **FPL**, or **NRST APT** from the Direct-To window by touching the desired tab.

3. If a specific course is necessary, touch the **Course To** key.

Foreword
Getting Started
Audio & Xpdr Ctrl
Com/Nav
FPL
Direct-To
Proc
Wpt Info
Map
Traffic
Terrain
Weather
Nearest
Services/ Music
Utilities
System
Messages
Symbols
Appendix
Index

4. Use the numeric keypad to select the course and then touch the **Enter** key.

**Figure 5-2 Direct-To Course Selection**

5. Touch the desired waypoint and touch the **Activate** key or press the **small right** knob.

**Figure 5-3 Direct-To Selection**

6. The Map page will now be displayed with the new Direct-To course.

## 5.2 Direct-To a Flight Plan Waypoint

The Direct-To selection is not available for all flight plan entries. Some flight plans entries including holds and course reversals cannot be selected for Direct-To. Instead, select the associated waypoint for the Direct-To function.

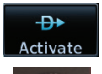
1. Press the **Direct-To** key on the right side of the unit.

2. Touch the **FPL** tab on the left side of the Direct-To window.

**Figure 5-4 Direct-To Flight Plan Leg Selection**

3. Touch the leg of your flight plan you want to use. The Direct-To Waypoint page will display information about the selected flight plan waypoint.

**Figure 5-5 Selected Direct-To Flight Plan Leg**




4. Touch the **Activate** key or press the **small right** knob to activate the selection.

5. The Map page will now be displayed with the new Direct-To course.

## 5.3 Direct-To a Nearest Airport

1. Press the **Direct-To** key on the lower right side of the unit.

2. Touch the **NRST APT** tab on the left side of the Direct-To window. The nearest 25 airports within 200 NM will be listed. The airport at the top of the list is the nearest airport. To review the other nearest airports, touch the **Up** and **Down** keys to scroll through the list.

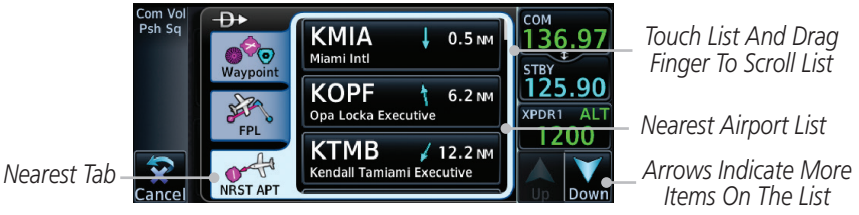



**Figure 5-6 Direct-To Nearest Airport Selection**

3. Touch the desired airport to select it. The selected airport will be displayed in the Waypoint page.

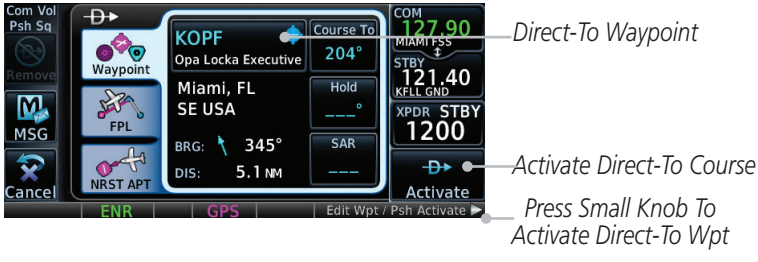
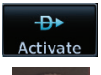



**Figure 5-7 Selected Direct-To Nearest Airport**



4. Touch the **Activate** key or press the **small right** knob to activate the selection.

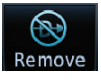
5. The Map page will now be displayed with the new Direct-To course.

## 5.4 Removing a Direct-To Course

When a Direct-To course is cancelled, the previously active flight plan will be reactivated and the nearest leg to the aircraft position will become the active leg. If there was no active flight plan, after cancelling the Direct-To course the aircraft will continue with the current heading.

1. Press the **Direct-To** key to display the Direct-To page.

**Figure 5-8 Remove the Direct-To Course**




2. Touch the **Remove** key.
3. Navigation will now return to the active flight plan.

## 5.5 Direct-To Map Waypoint

A Direct-To course may be set to any waypoint selected on the Map page. The waypoint is selected by touching an item such as an airport, VOR, or NDB or any other location. Touching the map page at any place not having an existing location name will create a waypoint with the name "MAPWPT." Touching the **Direct-To** key will automatically insert the selected waypoint as the Direct-To waypoint. The MAPWPT will be saved as a User Waypoint.

1. On the Map page, touch the map at the location intended to be the Direct-To waypoint.

2. Press the **Direct-To** key on the right side of the unit.

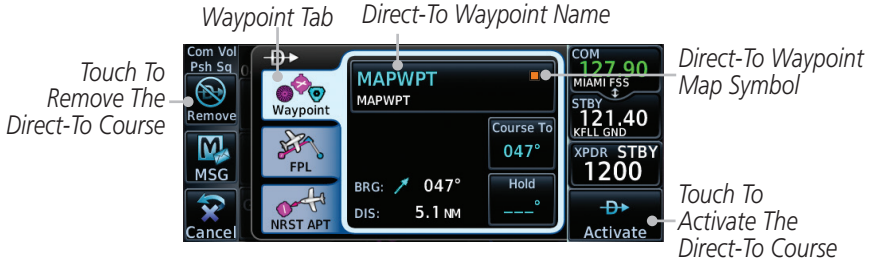
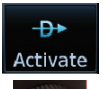



**Figure 5-9 Touch the Map to Create a MAPWPT as the Direct-To Course Destination**



3. Touch the **Activate** key or press the **small right** knob to activate the selection.

## 5.6 Off-Route Direct-To Course

An off-route Direct-To course may be selected by using the Waypoint tab, Nrst Apt tab, or selecting a waypoint on the map. When an off-route Direct-To course is activated, the existing active flight plan will be deactivated. The original active flight plan and waypoint sequencing is reactivated when the Direct-To course is removed.

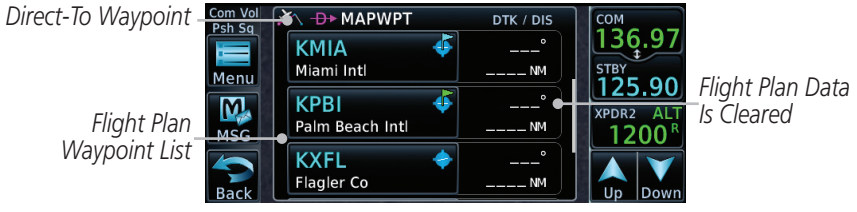



**Figure 5-10 Active Flight Data is Removed When a Direct-To Course is Activated**

## 5.7 Graphically Editing a Direct-To Route

Direct-To routes may be edited graphically on the Map page the same as a regular flight plan. See section 8.3.3 for details.

# 5.8 Direct-To a User-Defined Hold

***NOTE:*** *This feature is available in software v6.00 and later.*

***NOTE:*** *Any time a user hold is changed with the Direct-To key, upon pressing the "Activate the Direct-To Hold" key, navigation guidance will be given back to the holding fix and the new hold re-initiated.*

A user-defined hold can be created as part of a Direct-To to any waypoint. Automatic waypoint sequencing will be suspended during the hold.

1. Press the **Direct-To** key to display the Direct-To page.

**Figure 5-11 Create Hold at Direct-To Waypoint**

2. Touch the **Hold** key. The Direct-To Hold page is displayed.

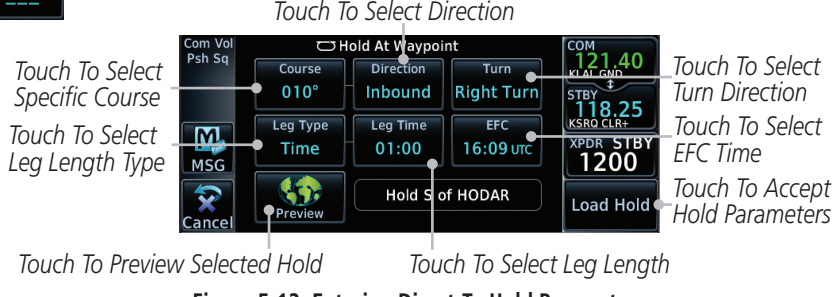
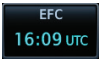
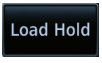



**Figure 5-12 Entering Direct-To Hold Parameters**

3. Touch the **Course** key to open the keypad. Use the keypad and the **Enter** key to select the inbound or outbound course.
4. Touch the **Direction** key to select between Inbound or Outbound for the course direction.
5. Touch the **Turn** key to select between Left or Right for the turn direction.
6. Touch the **Leg Type** key to select between Time or Distance for the leg type.
7. Touch the **Leg Time** or **Leg Distance** key to display the keypad. Use the keypad and the **Enter** key to select the length of the leg.




8. Touch the **EFC** key to display the keypad. Use the keypad and the **Enter** key to select the Expect Further Clearance time for a reminder.




9. Touch the **Load Hold** key to accept the hold parameters and return to the Direct-To page.

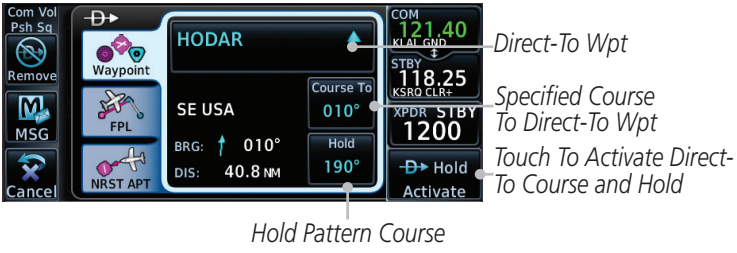



**Figure 5-13 Direct-To Page with Hold Selected**

10. Touch the **Hold Activate** key or press the **small right** knob to activate the selection.

## 5.9 Direct-To a Search and Rescue Pattern

***NOTE:*** *This feature is available in software v6.00 and later.*

A search and rescue pattern can be created as part of a Direct-To to a flight plan, off-route, or map waypoint. Creating a SAR pattern as part of an off-route Direct-To will insert the SAR pattern waypoints at the end of the En Route portion of the active flight plan.

1. Press the **Direct-To** key to display the Direct-To page.

**Figure 5-14 Create SAR Pattern at Direct-To Waypoint**

2. Touch the **SAR** key. The Direct-To Search and Rescue Patterns page is displayed.

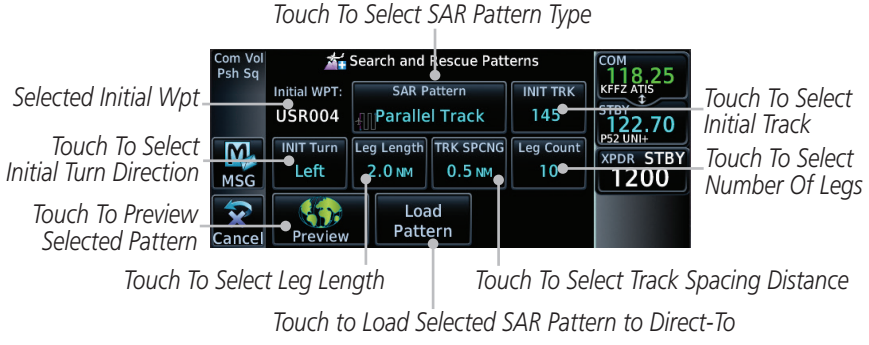



**Figure 5-15 Direct-To Search and Rescue Pattern Page**

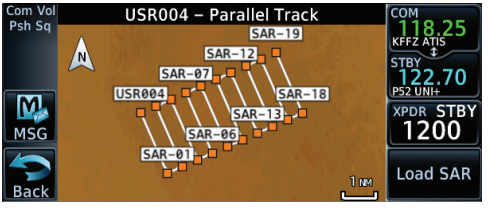
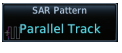
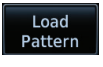



**Figure 5-16 Direct-To Search and Rescue Preview**




3. Touch the **SAR Pattern** key to select between Parallel Track, Sector Search, Expanding Square, or Orbit for the SAR pattern type. The available patterns can be configured by the installer and all of the listed pattern types may not be available. See section 4.2.4 for more details on configuring each pattern type.

4. Touch the **Preview** key to open a preview of the selected pattern.




5. Confirm the SAR pattern information and then touch the **Load Pattern** key to accept the SAR parameters and return to the Direct-To page.

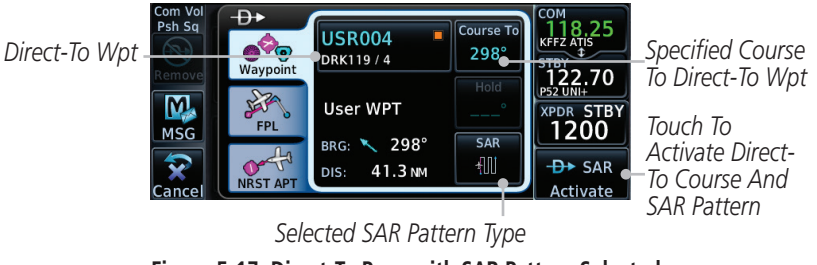



**Figure 5-17 Direct-To Page with SAR Pattern Selected**

6. Touch the **SAR Activate** key or press the **small right** knob to activate the selection.