

GPS 155XL

Pilot's Quick Reference Guide

```

      * * * * * ↑ * * * * *
dis 137.36M    gs : 120K
trk  231°    brg 231°
go to: KICT    eta 14:54
  
```

Cursor here allows cycling through available options

CURSOR CONTROL

CRSR

The cursor key allows you to activate and deactivate the cursor, and is used to highlight fields for data entry, changing display data or cycling through available options.

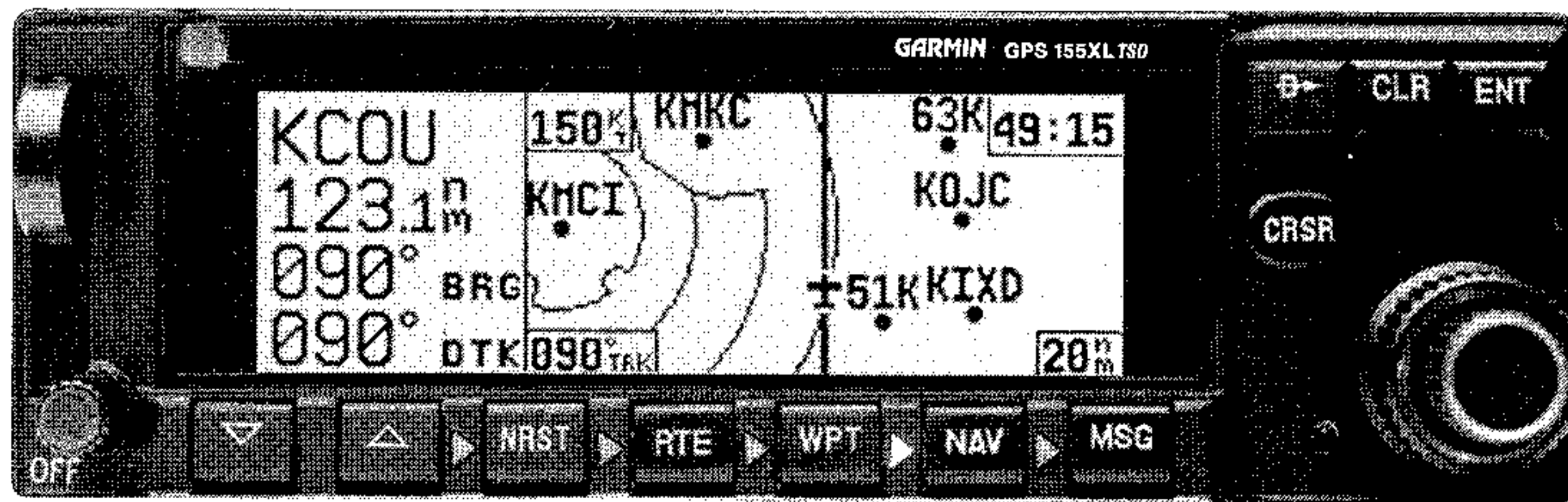
Pressing **CRSR** activates the cursor and is indicated by a highlighted data field.

Pressing **CRSR** again turns the cursor off.





Cursor here allows for data entry

```


      * * * * * ↑ * * * * *
apt: KUK█ N CEN USA
BURLINGTON KS
COFFEY CO
  
```



DATA ENTRY

-  The outer knob is used to advance through pages, advance the cursor or move through data fields.
-  The inner knob is used to change data or scroll through additional information that cannot fit on the screen.
-  The clear key is used to erase information or cancel an entry.
-  The enter key approves operations and confirms data entry and prompts.

POWER UP

- ❑ Insert data card in card slot.
- ❑ Rotate the power/intensity knob  clockwise to turn the unit on. The welcome page will appear while the unit performs a self test.
- ❑ Press **ENT** to confirm the database prompt.
- ❑ Satellite acquisition will begin and the unit will display a 'Ready for Navigation' message once a position fix has been calculated.
- ❑ To view the message, press the **MSG** key. Press **MSG** again to return to the previous screen.

```
No gps position
Acquiring      epe_____T
sat  1  3  5  6  9 13 17 19→
sgl  9  6  -  3  -  7  9  -
```

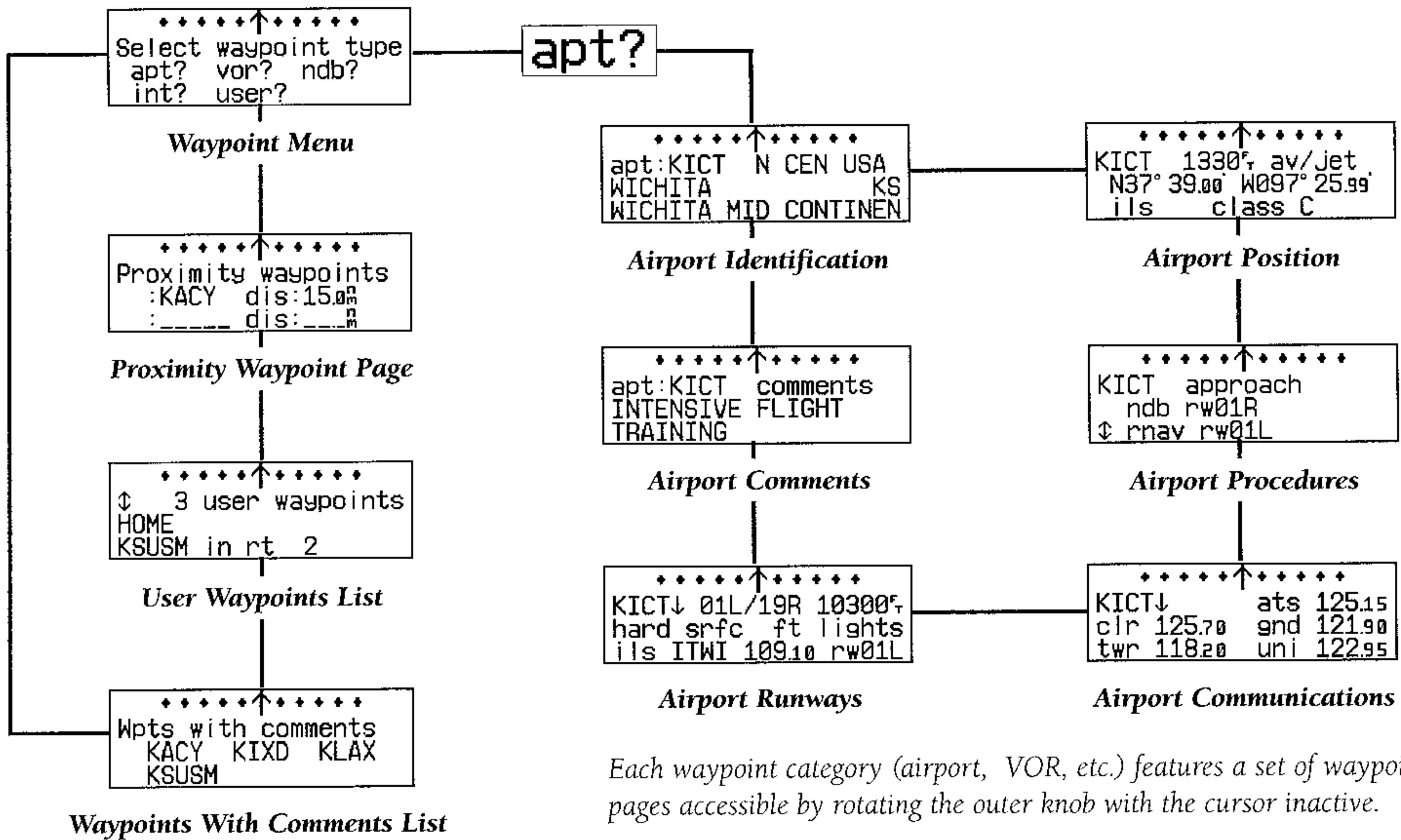
```
No active waypoint
Ready for navigation
```

TO SELECT A DIRECT-TO DESTINATION:

- ❑ Press **→**.
- ❑ Rotate **⦿** to select the first character of the destination waypoint's identifier. Remember to use the ICAO identifier if you are entering an airport as your destination (e.g., 'KOSH' for Wittman Regional Airport, versus 'OSH' for Oshkosh VOR).
- ❑ Rotate **○** one stop to the right to advance the cursor to the next character position, and use **⦿** to select the next character of the identifier.
- ❑ Repeat the previous step until the desired waypoint is displayed.

```
No active waypoint  
go to apt:KICT  
N37° 39.00' W097° 25.99'  
auto crs 228° ok?
```

- ❑ Press **ENT** to confirm the identifier. The direct-to confirmation page will appear, showing the position of the selected destination and the course from your present position.
- ❑ Press **ENT** to confirm the direct-to destination. The NAV summary page will appear, displaying detailed navigation data to your destination. The graphical CDI on the top line of the page indicates the distance and direction you are off course.



Each waypoint category (airport, VOR, etc.) features a set of waypoint pages accessible by rotating the outer knob with the cursor inactive.

The **WPT** key is used to view position, runway, frequency and other information on airports, VORs, NDBs, intersections and user waypoints. To scroll through the waypoint pages, press **WPT** and rotate the knob.

TO ACCESS APT INFORMATION:

- ❑ Press the **WPT** key.
- ❑ Press **CRSR** to activate the cursor.
- ❑ Press **ENT** to confirm the 'apt?' category. The airport identification page will appear with the identifier field ready for entry.

```

      * * * * * ↑ * * * * *
apt: KUK █ N CEN USA
BURLINGTON          KS
COFFEY CO
  
```

TO ENTER APTS BY IDENTIFIER:

- ❑ Highlight an identifier field, and enter the identifier.
- ❑ As the identifier is entered, the GPS 155XL will display the first waypoint with the same identifier letters you have entered to that point.
- ❑ When the desired airport is displayed, press **CRSR**.

TO SELECT AN APT BY FACILITY NAME OR CITY:

```

      * * * * * ↑ * * * * *
apt: KSTL N CEN USA
ST_LOUIS MO
LAMBERT ST LOUIS INT
  
```

- ❑ From the airport identification page, highlight the second field to enter the city name, **or...** highlight the last field to enter the facility name.

```

      * * * * * ↑ * * * * *
apt: KMKC N CEN USA
KANSAS CITY MO
KANSAS_CITY_DOWNTOWN
  
```

- ❑ Enter the city or facility name of the airport.
- ❑ Press **CRSR** to finish.

TO SELECT A DIRECT-TO DESTINATION:

- Press the **→** key.
- Enter the identifier of the destination waypoint, using **●** and **○**.
- Press **ENT** to accept the identifier, and **ENT** again to accept the direct-to confirmation page.

```
Enter waypoint
dis -----CL  gs : 0KT
dtk          °   trk 341°
go to: KCOS_  ete__:_
```

TO RE-CENTER THE CDI:

- Press **→**, followed by **ENT** twice.

TO SELECT A DIRECT-TO FROM ANY PAGE THAT DISPLAYS A SINGLE WAYPOINT IDENTIFIER:

- Press **→**, followed by **ENT**.

```
Enter waypoint
go to apt: KCOS
N38° 48.36' W104° 42.05'
auto crs 256°  OK?
```

TO CANCEL A DIRECT-TO:



- Press the **→** key.
- Press the **CLR** key, followed by **ENT**.

USING THE DIRECT-TO CONFIRMATION PAGE




The GPS 155XI's direct-to confirmation page may also be used to select a destination waypoint, review a waypoint's position, facility name or location, and set a course to/from the destination.

TO SELECT A DIRECT-TO DESTINATION:

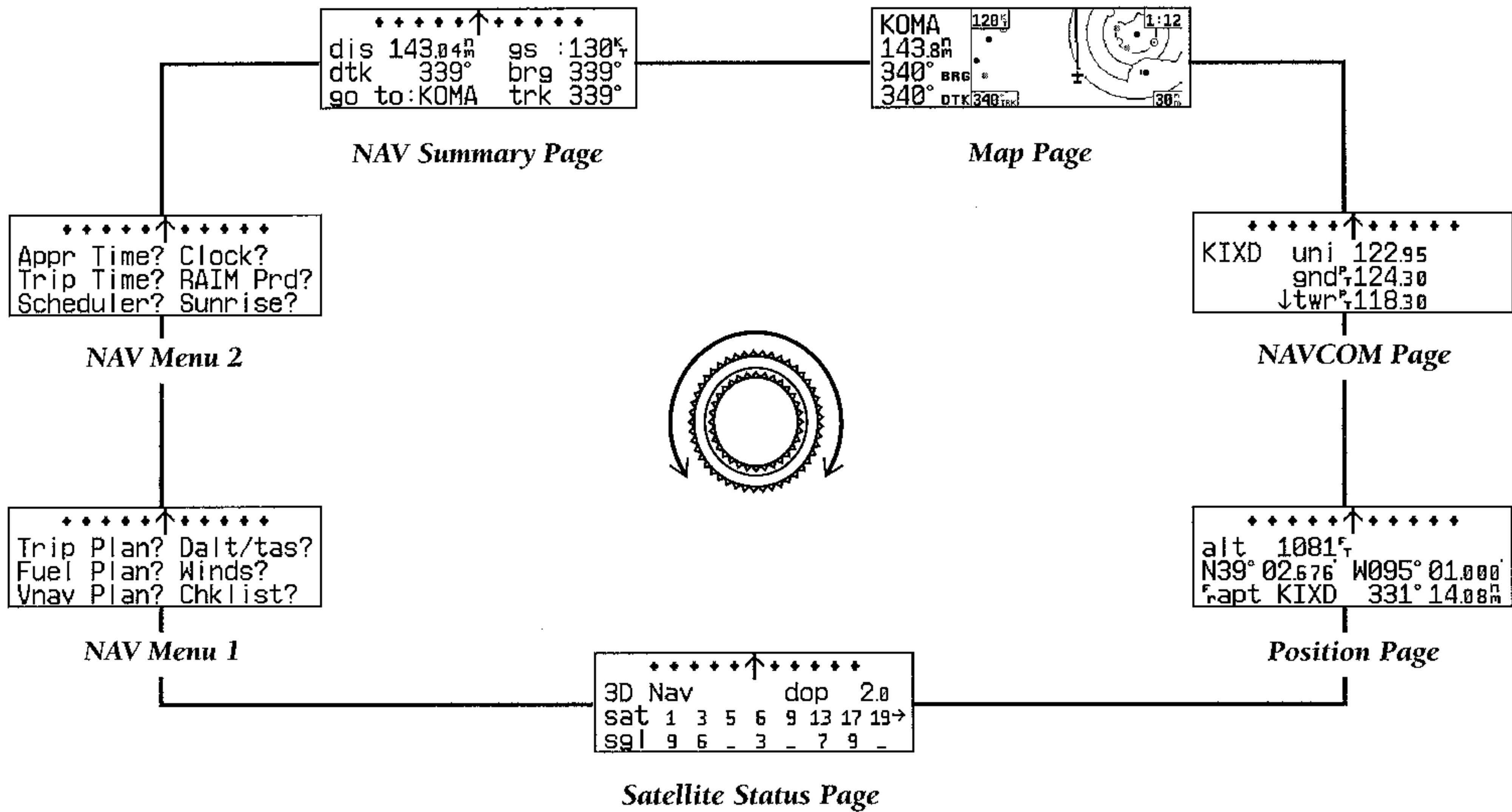
- ❑ Highlight the identifier field and enter the identifier using  and . Press **ENT** when finished.


TO REVIEW THE LOCATION/FACILITY NAME OF THE DIRECT-TO WAYPOINT:

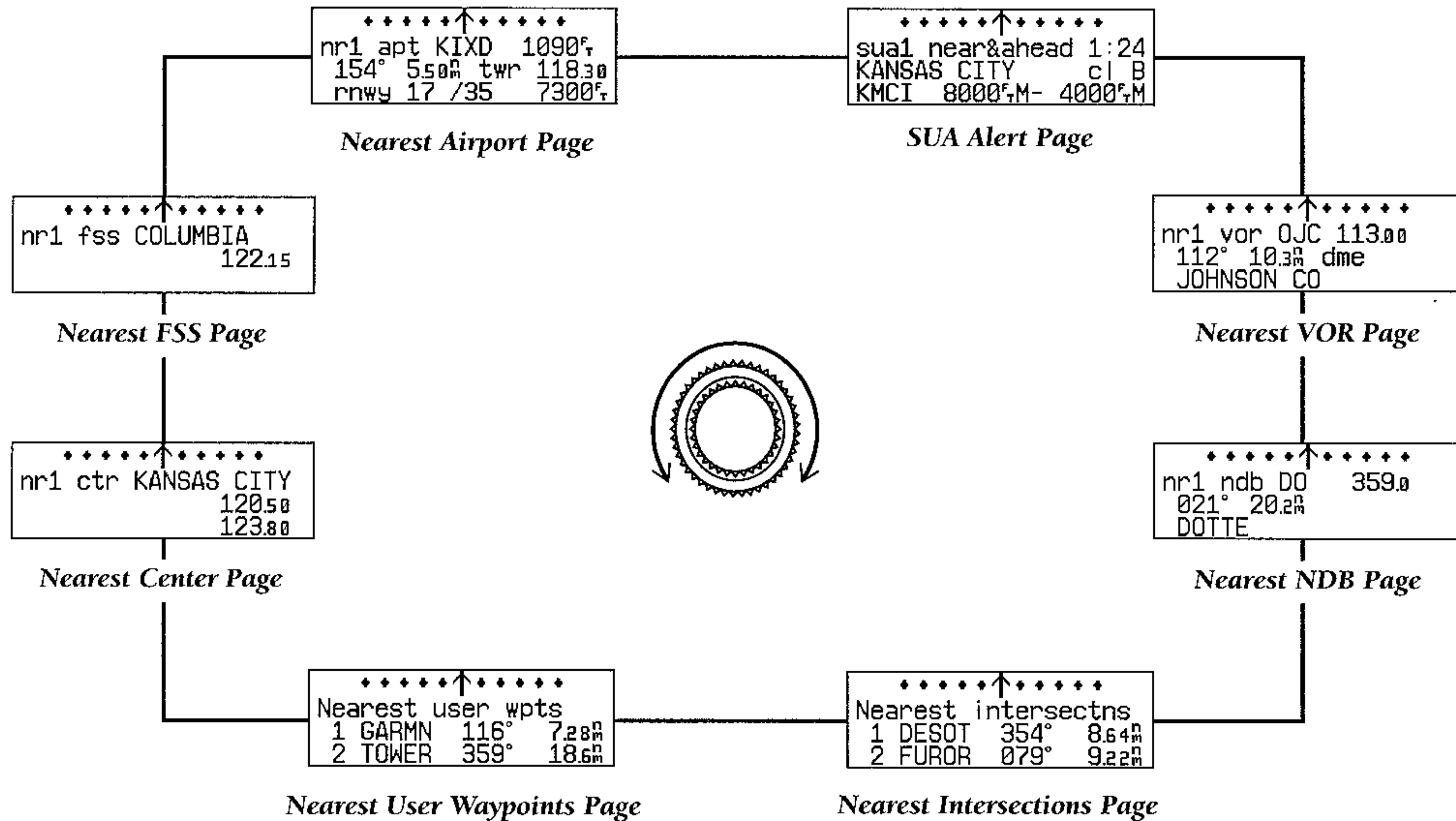
- ❑ Highlight the location field and rotate .

TO ENTER A DESIRED COURSE TO THE DESTINATION WAYPOINT:


- ❑ Dial in the desired course on the HSI (OBS) and set the external GPS SEQ switch to the HOLD position.



The **NAV** key is used to view navigation, position and status information and provides access to various planning and calculation functions. To scroll through the navigation pages, press **NAV** and rotate the  knob; or press the **NAV** key repeatedly.



NEAREST/SUA

The **NRST** key is used to obtain information on the nine nearest airports, VORs, NDBs, intersections, user waypoints, two nearest ARTCCs and two nearest FSSs; and provides access to SUA alert information. To scroll through the nearest pages, press **NRST** and rotate the  knob.

NEAREST WAYPOINT INFORMATION

TO VIEW NEAREST APT INFORMATION:

- ❑ Press the **NRST** key. The nearest airport will be displayed, subject to the runway surface type and minimum runway length currently selected.

TO VIEW OTHER NEAREST APTS:

- ❑ Rotate **⦿** to the right.

TO VIEW ANY ADDITIONAL AIRPORT INFO:

- ❑ Highlight the frequency field or the runway identification field.
- ❑ Rotate **⦿** to scroll through any additional information.
- ❑ Alternatively, highlight the identifier, press **ENT** and rotate **⦿**.

TO VIEW OTHER WAYPOINT CATEGORIES:

- ❑ Remove the cursor by pressing **CRSR**, and rotate the **⦿** knob.

SPECIAL USE AIRSPACE ALERTS

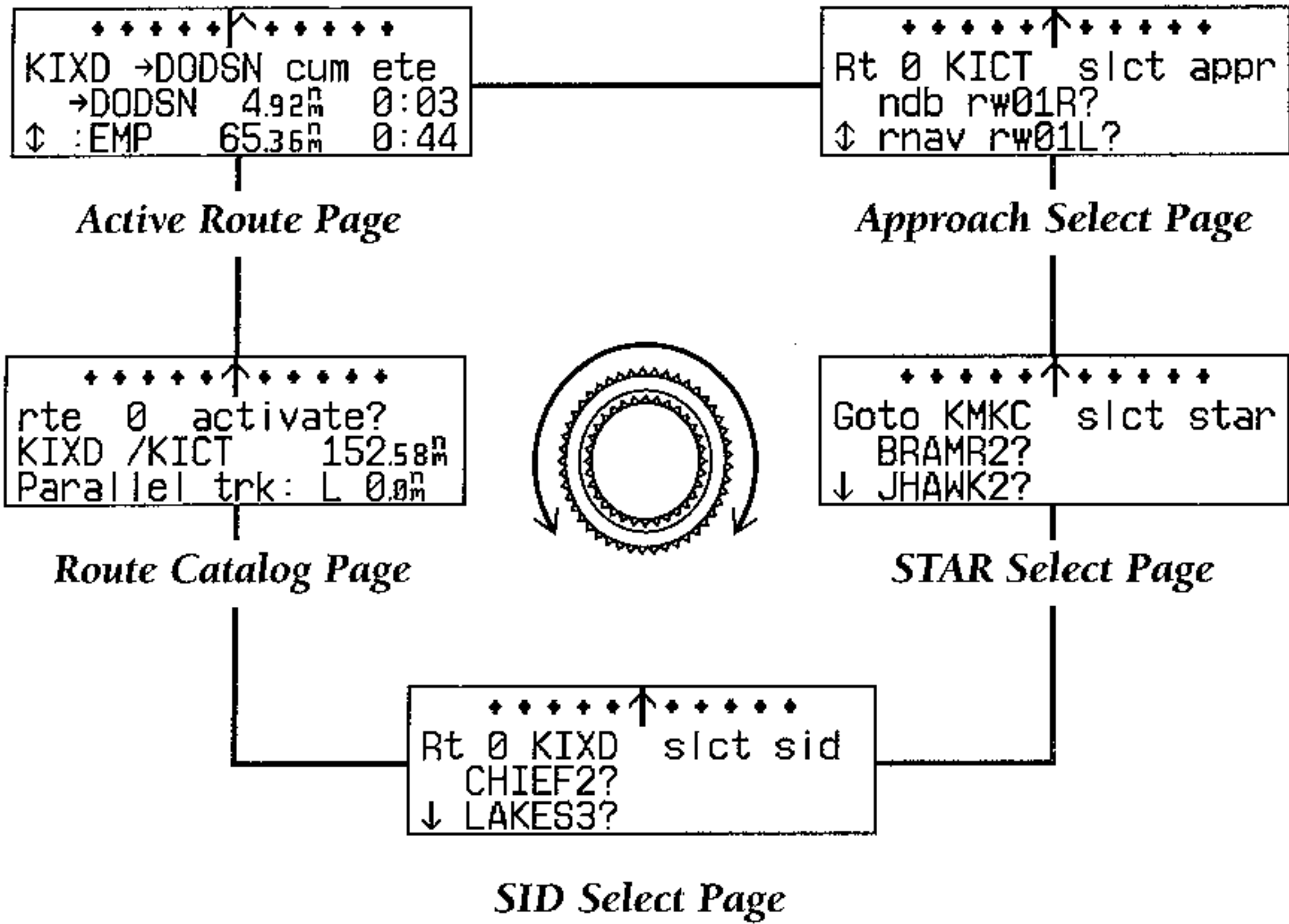


```
*****↑*****
sua1 near&ahead 1:24
KANSAS CITY      ci B
KMCI 8000FTM- 4000FTM
```

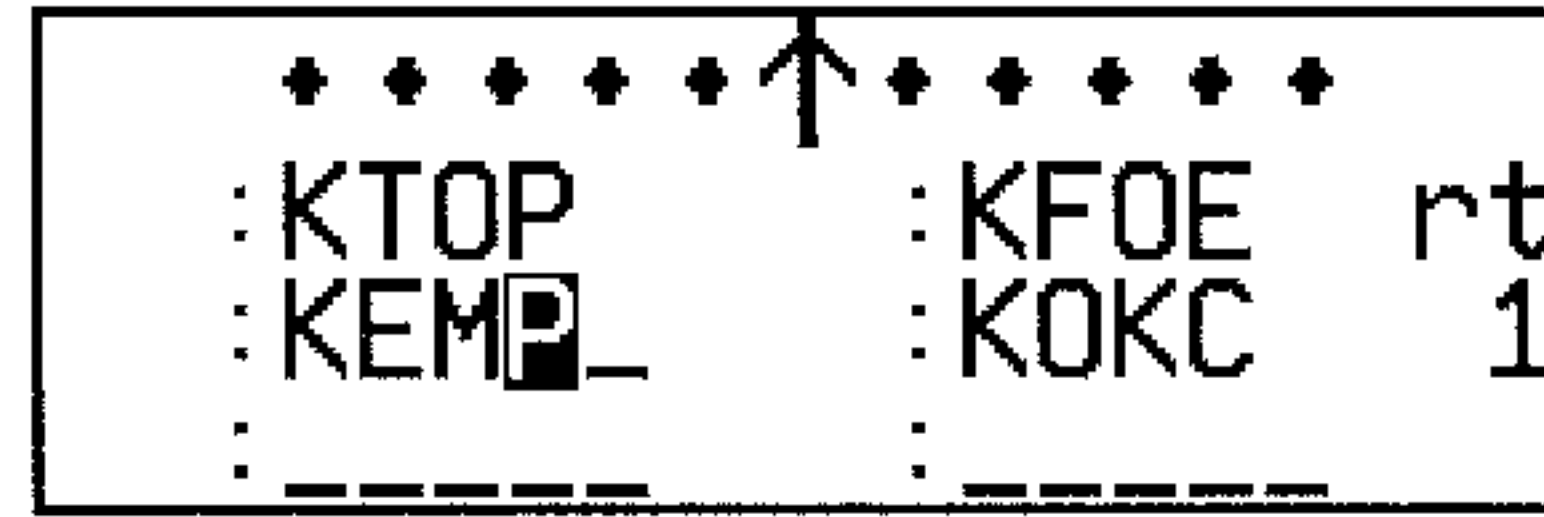
The GPS 155XL's **NRST** key also provides access to Special Use Airspace information that you are currently being alerted to.

TO VIEW THE SUA ALERT PAGE:

- ❑ Press the **NRST** key.
- ❑ Rotate **⦿** one stop to the right.
- ❑ To toggle the display between the SUA name and the controlling agency and scroll through other SUA alerts, rotate **⦿** in either direction.



TO CREATE OR EDIT A ROUTE:



- Press the **RTE** key and rotate until the route catalog page appears.
- Rotate to display the route number you would like to create or edit (route 0 for the active route).
- Press **CRSR** to activate the cursor.
- Rotate to select the 'edit?' option from the route action field. Press **ENT**.
- To add a route waypoint, highlight the first blank waypoint field or the point where you want to enter the new waypoint. Enter the waypoint identifier and press **ENT**. Press **ENT** again to accept the waypoint confirmation page.
- To delete a route waypoint, highlight the waypoint and press **CLR**, then **ENT**.
- Press **CRSR** to finish.

The **RTE** key allows you to create, edit and activate routes; and provides access to search-and-rescue, offset navigation and closest point of approach functions. To scroll through the route pages, press **RTE** and rotate the knob; or press the **RTE** key repeatedly.



TO ACTIVATE A ROUTE:

- ❑ Press **RTE** and rotate to display the route catalog page.
- ❑ Rotate to display the desired route.
- ❑ Press **CRSR** to activate the cursor.
- ❑ Rotate to select the 'activate?' option from the route action field.
- ❑ Press **ENT**. The route will be copied into route 0 (the active route).

TO DELETE/STOP NAVIGATING A ROUTE:

- ❑ Follow the first three steps described above.
- ❑ Rotate to select the 'delete?' option and press **ENT**.

TO REVIEW ROUTE WAYPOINTS FROM THE ACTIVE ROUTE PAGE:

- ❑ With the cursor off, rotate in the direction of the arrow prompts.

TO MANUALLY SELECT THE NEXT ROUTE WAYPOINT:

- ❑ Highlight the desired waypoint with the cursor and press **→**, followed by **ENT**. The GPS 155XL will provide direct navigation guidance to the selected waypoint and then resume navigating the remainder of the route sequence.

TO HOLD ON A ROUTE WAYPOINT:

- ❑ Highlight the route waypoint you want to hold on, press **→** and **ENT**.
- ❑ To set a desired inbound course, dial the desired course on the HSI(OBS).
- ❑ Set the external GPS SEQ switch to the HOLD position.
- ❑ The GPS 155XL will hold on the 'active to' waypoint and will not sequence to the next waypoint in a route. The selected course will appear at the bottom left of the Nav summary and map pages. To cancel the waypoint hold, set the external GPS SEQ switch back to the AUTO position.

*****↑*****
Prox alarm-press NAV

Message Page

Press and hold MSG
for 2 seconds

*****↑*****
MAP Setup
orientation trk up
auto zoom on↓

Map Setup

*****↑*****
I/O Channel 2
in off
out off 9600

I/O Channel 2

*****↑*****
Map datum
WGS 84
Define user datum?

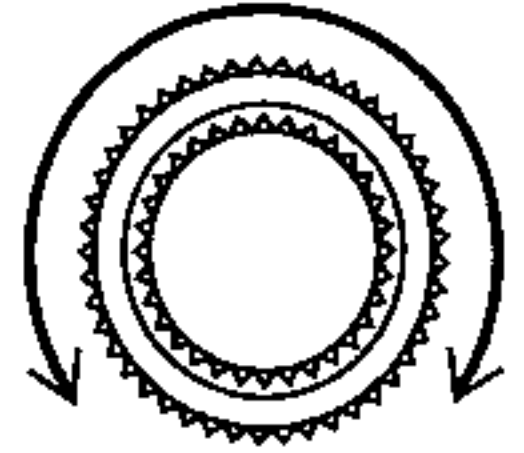
Map Datum

*****↑*****
CDI Settings
scale Auto ± 5.0M

CDI Settings

*****↑*****
Mag Var / Arrvl Alarm
auto mag E004°
arrival: 0.0M

Mag Var/Arrival Alarms



*****↑*****
Nearest apt search
min rwy len:2000f
hard only srfc

Nearest Apt Search

*****↑*****
Battery saver--turn
off backlight 30 s
after last keypress

Battery Saver

*****↑*****
Display
contrast auto :50
mode pstv

Display Settings

*****↑*****
Backlight intensity
mode auto
level 75%

Backlight Intensity

*****↑*****
cl B/cta on moa on
cl C/tma on oth on
alt: 100M rstcd on


SUA Settings

*****↑*****
posn dm alt f_T fpm
nav ^N_M ^K_T fuel ^C_L
pres ^H_S temp ^O_F

Units of Measure

*****↑*****
Trip timer settings
run when gs exceeds
100K_T

Trip Timer

The **MSG** key is used to view system messages and access the GPS 155XL's unit settings. To view a message, press **MSG**. To access the unit settings pages, press and hold the **MSG** key for more than two seconds, and rotate the  knob with the cursor inactive.

- MAP SETUP— defines the orientation of the map display: north up, ground track up or desired track up. Allows you to specify which waypoint information (airports, nav aids, airspaces, identifiers) will appear on the map display by scale setting and enable/disable autozoom.
- CDI SETTINGS— allows you to set the CDI scale to 0.3, 1.0 or 5.0 nm scale or an automatic scale. The default setting is 'auto'.
- MAG VAR/ARVL ALARM— allows you to select between true north, auto or user-defined magnetic variation options and set an arrival alarm for waypoint arrival at a specified distance from a destination waypoint. The default setting for magnetic variation is 'auto'.
- NEAREST APT SEARCH— allows you to define the runway length and surface type used in determining which nearest airports are displayed. The default settings are '0 ft/mt' for length and 'any' for runway surface.
- BATTERY SAVER— allows you to specify a timeout interval for the GPS 150XL display. The default setting is 30 seconds.
- DISPLAY SETTINGS— allows you to manually adjust the contrast and mode of the display. The default settings are automatic.
- BACKLIGHT INTENSITY— allows you to manually adjust the backlighting level. The default setting is automatic backlighting control.
- TRIP TIMER— provides a running clock on Nav Menu 2 that may be set to run when power is on or when ground speed exceeds a user-defined minimum.
- UNITS OF MEASURE— allows you to select nautical, statute or metric units of measure for various navigation and planning displays.
- SPECIAL USE AIRSPACE— allows you to turn specific controlled/special use airspace message alerts on or off. Turning message alerts off will not prevent SUA information from being displayed on the nearest SUA page.
- MAP DATUM— allows you to select or define the map datum used. The default datum is WGS 84.
- I/O CHANNEL 2— allows you to select input and output interface settings and baud rate for channel 2. The default settings are 'off'.