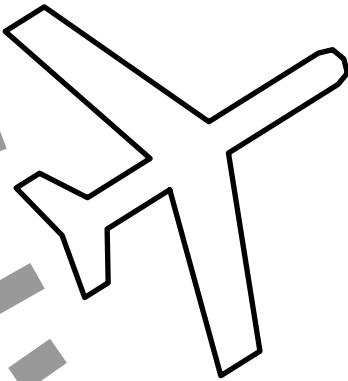


Button Operations



NAV

PUSH: Selects the navigational instrument supplying information to the main course indicator, CDI, and upper display area. Each touch of the button cycles through the choices, which depend on installed equipment and selections made at the time of installation. A typical sequence is NAV1, GPS1, GPS2. The selected option is displayed on-screen next to [NAV]. In some installations, tuning an ILS frequency on NAV1 will override this setting and cause NAV1 to be selected.

NOTE: In some installations, the [NAV] button is disabled and nav source selection is accomplished with an external switch. See your Aircraft Flight Manual Supplement for more information.

HOLD: No action performed.

NAV

4

SHFT>NAV

Displays the GPS mode selection switches and nav-related user settings.

GPS MODE: Toggles the GPS between “HOLD” (or “OBS”) MODE and “SEQ” (or “LEG”) mode.

GPS ARM: Sends the approach ARM command to the GPS, if configured.

AUTO SLEW: Allows the GPS or loran to automatically rotate the course pointer to the desired track.

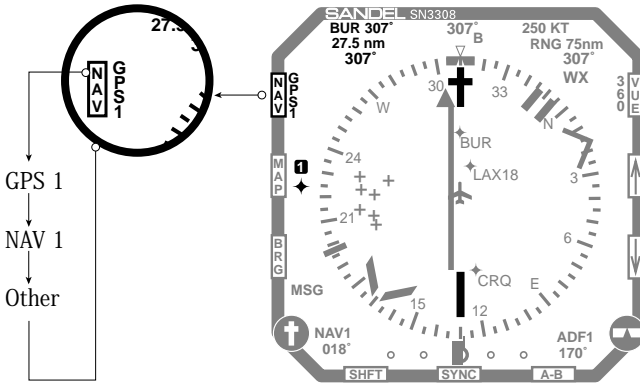
CRS PTR: Selects display of the course pointer. When set to AUTO, course pointer will be hidden when LNAV is selected with a current waypoint and flight plan waypoints are enabled on the current map display.

DEV BAR: Selects display of the large horizontal and vertical D-bars in the center of the screen.



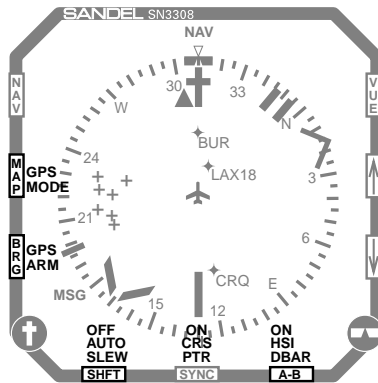
NAV

Selects primary Nav source.



SHFT > NAV

Invokes “soft keys” that control approach mode functions of GPS. Also allows for setting of nav-related user preferences.



Note: Actual softkey labels will vary depending on the GPS receiver used.



MAP

PUSH: Controls the display of moving map data. Cycles through the map scratchpad and memories.

HOLD: Turns the map display off. MAP OFF will be displayed at the top of the screen.

M
A
P

4

SHFT>MAP

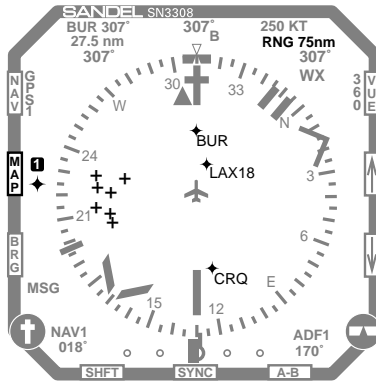
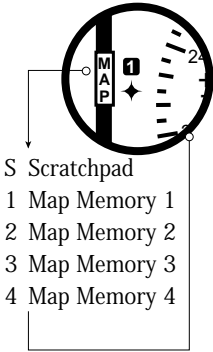
Accesses the map setup function.
See chapter 5 for more detail.



MAP

Displays a map memory or turns the map off.

Note: When map or weather display is on, CDI will only display on the lower portion of the screen.



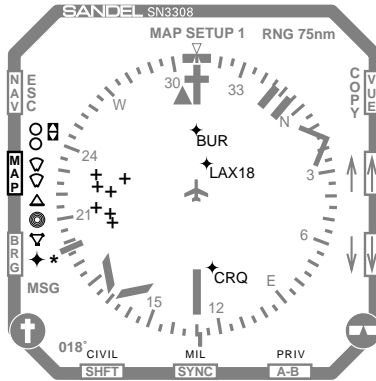
MAP

SHFT>MAP

Accesses the map setup function.

4

- Map Setup Items**
- Airports — ○
 - Airspace — ▽
 - Intersections — △
 - NDBs — ⊙
 - VORs — ▽
 - Flight Plan & Waypoints — ◆



BRG

PUSH: Controls the display of the two bearing pointers, and their associated data displays in the lower data area. Each press advances through the following list:

BRG1

BRG2

BOTH

OFF

NOTE: The bearing pointer nav source is pilot selectable (see below). If only one bearing pointer has a nav source assigned, pushing [BRG] simply turns the active bearing pointer on and off; if no nav source is assigned to either pointer, pushing [BRG] has no effect.

HOLD: Turns both bearing pointers off.

B
R
G

4

SHFT>BRG

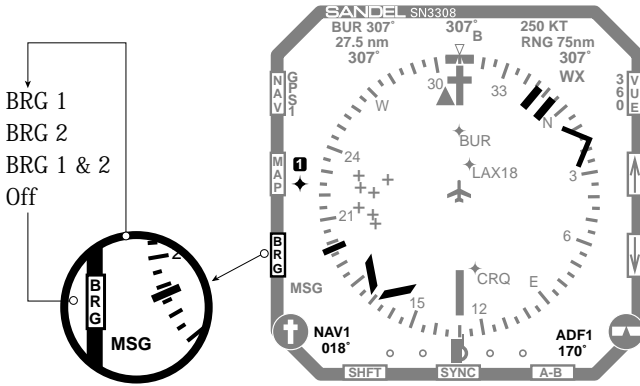
Assigns a nav source (including the option of “OFF”) to each of the two bearing pointers. Pushing [SHFT]>[BRG] brings up two selection columns, one for each bearing pointer. Each column lists all the available nav sources installed. Asterisks show the source currently selected. Pressing the buttons below the column steps through the choices for the bearing pointer. Press the [ESC] softkey to accept any changes made and exit from the selection menus.

NOTE: The “AUTO” option will automatically assign the selected primary nav source to bearing pointer 1.



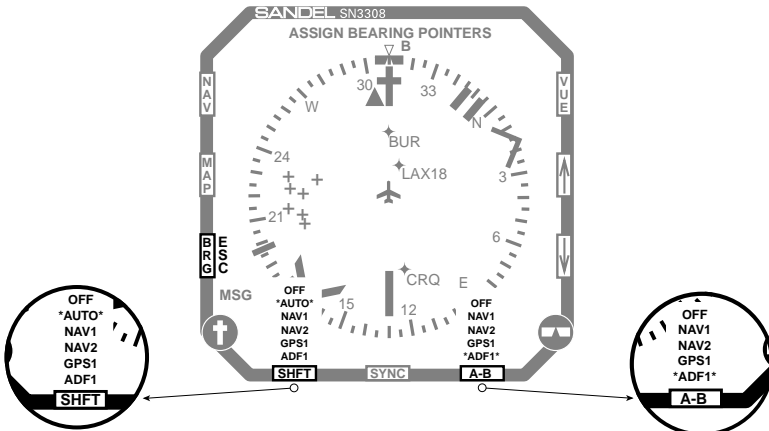
BRG

Turns bearing pointers on/off.



SHFT > BRG

Allows assignment of nav sources to BRG 1 & 2 pointers. Currently selected nav source is indicated by asterisk (e.g. *AUTO*).



BRG

4



SHFT

PUSH: [SHFT] acts as a shift key, permitting access to a selection of sub-menus for certain buttons.

Failure to select a sub-menu for 20 seconds, or pushing [SHFT] a second time cancels the sub-menu access and returns to a normal display.

HOLD: No action performed.

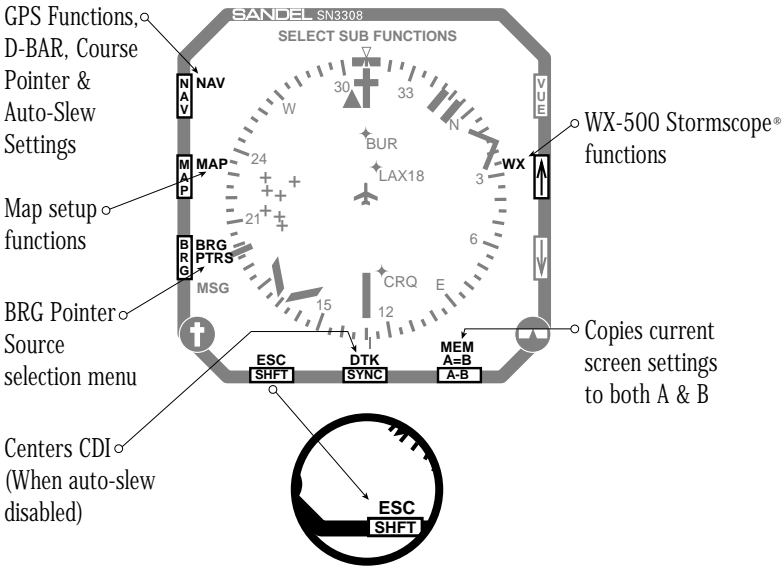
S
H
F
T

4



SHFT

Accesses sub-menus for certain buttons.



S
H
F
T



SYNC

PUSH: Heading sync. Immediately moves the heading bug to the current heading

HOLD: No action performed.

S
Y
N
C

4

SHFT>SYNC

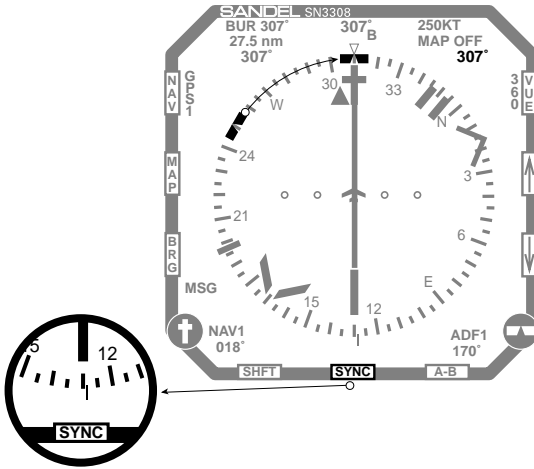
Course sync. Sets the course pointer “direct-to” the current nav source. If a VOR is the selected nav source, the current radial is chosen as the direct-to course information, and the CDI needle centers with a “TO” flag indication. If the selected nav source is a GPS or loran, this performs the direct-to function if auto-slew is off (see [SHFT]>[NAV]).

If a localizer is tuned, or a received nav signal is too weak to accurately determine the current bearing or the display is flagged, the course pointer will be turned to the current heading.



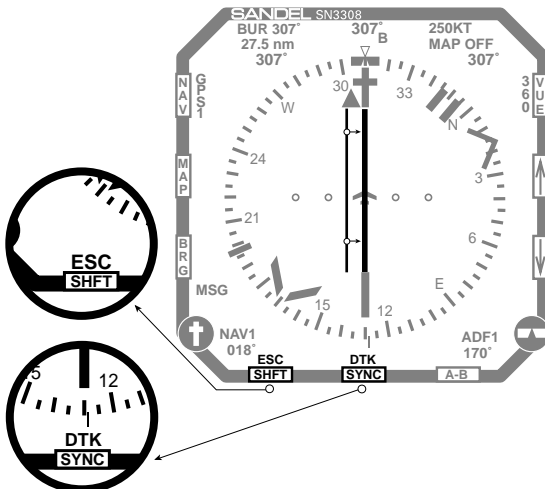
SYNC

Sets "Heading Bug" to present heading.



SHFT > SYNC

Rotates course pointer to direct-to, centering CDI. If no valid nav data, turns course pointer to current heading.



A-B

PUSH: The SN3308 can display either of two presentations of information, referred to as A and B. [A-B] cycles the display between these two presentation memories, each of which retains the selected values for:

- Map range
- Map selection
- Bearing pointers ON or OFF
- [VUE] selection

The only user settings not retained are the primary nav source selection and the actual course pointer and heading bug settings. No user action is required to store changes to A or B. Any change to the above parameters that is made while A is active become part of A. Any changes made while B is active become part of B.

Pushing [A-B] swaps the active screen for the inactive screen. Either A or B is displayed at the top of the display indicating which memory is currently active.

This two-view option can be used in a wide variety of ways. It can do something as simple as flip-flopping between screens that differ only in the map range depicted; or it can be used to switch from a simple HSI view to a full EFIS-like display.

HOLD: No action performed.

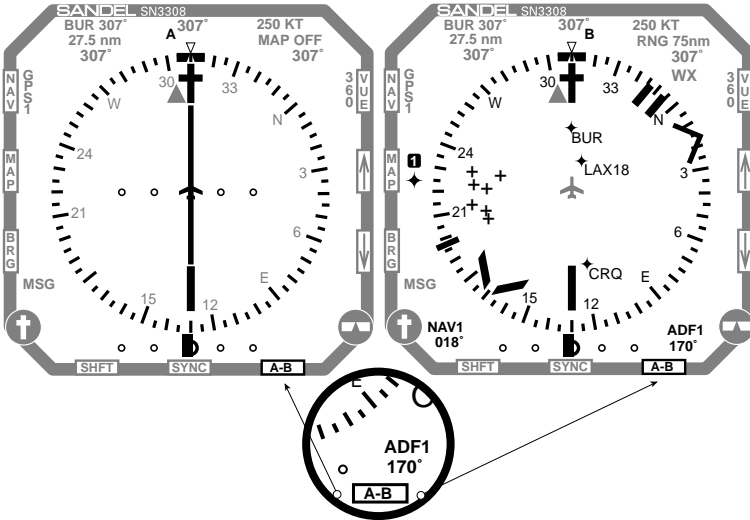
SHFT>A-B

Copies the active memory into the inactive memory, erasing the previous settings in the inactive memory. (i.e.. If A is active, pressing [SHFT]>[A-B] will copy the settings in A over to B).



A-B

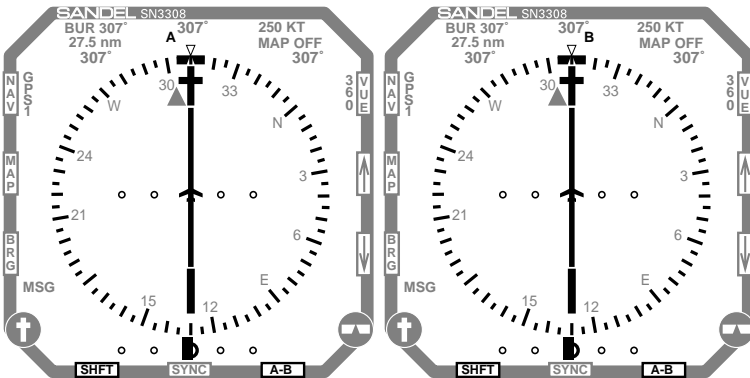
Toggles between screen memory A and screen memory B.



A - B

SHFT>A-B

Copies active memory into inactive memory.



4



DOWN-ARROW

PUSH: Decreases the map range, in nautical miles, shown on the main display area. Range is always measured from the white airplane indicator to the outside of the compass tick marks.

Pushing the [↓] button decreases the map range from 1000 nautical miles down to 1 nautical mile. The currently selected map range is shown at the top of the display. When the bottom of the map range is reached, further pushes of [↓] have no effect.

HOLD: If a flight plan or a direct-to waypoint is active on the LNAV receiver, the map range will auto-scale until reaching a setting at which the current active waypoint is visible.



4

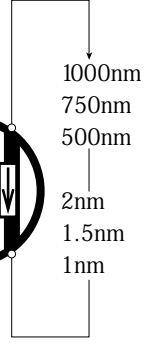
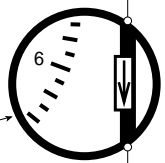
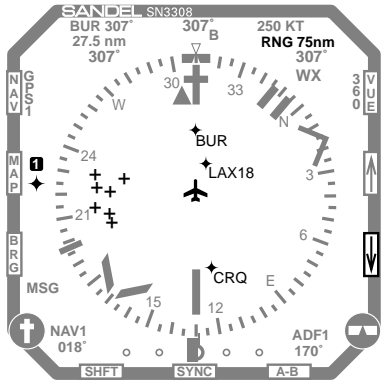
SHFT>DOWN-ARROW

No function is performed by this button sequence.





Zooms in map range.



4



UP-ARROW

PUSH: Increases the map range, in nautical miles, shown on the main display area. Range is always measured from the white airplane indicator to outside of the compass tick marks.

Pushing the [↑] button increases the map range from 1 nautical mile to 1000 nautical miles. The currently selected map range is shown at the top of the display. When the top of the map range is reached, further pushes of [↑] have no effect.

HOLD: If a flight plan or a direct-to waypoint is active on the LNAV receiver, the map range will auto-scale until reaching a setting at which the entire flight plan is visible.

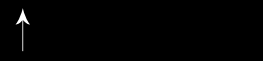
4

SHFT>UP-ARROW

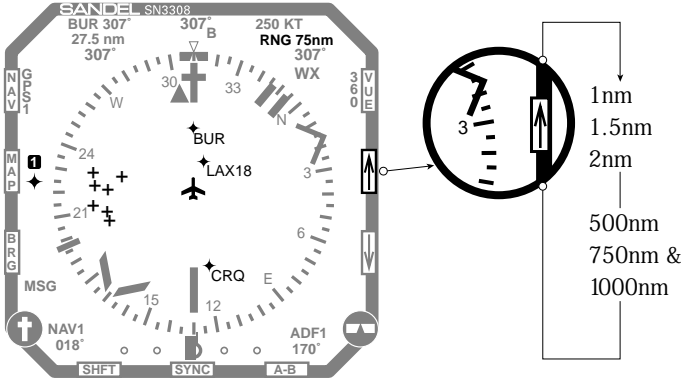
If a WX-500 Stormscope® lightning detection sensor is configured with the SN3308, a softkey is provided to access Stormscope functions. Softkeys are labelled with the following selections: OFF, CELL, STRK, CLEAR and SETUP MENU. Selecting SETUP MENU displays a sub-menu which provides access to the SELF TEST and DEMO functions.

If a WX-500 is not present in the system, this button sequence has no effect. The message “WX NOT INSTALLED” will be displayed at the top of the screen.

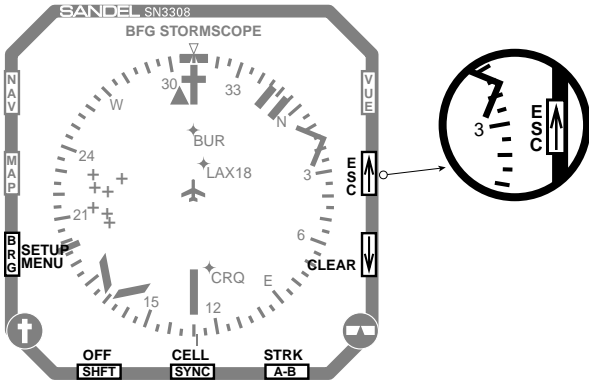




Zooms out map range.



Displays softkeys for controlling Stormscope® sensor, if installed.



4



VUE

PUSH: Toggles between displaying a 360-degree compass view and a 70-degree ARC view. Note that in the ARC view, the location of the aircraft is at the bottom of the display. Appendix 2 contains illustrations of 360-degree view and ARC mode view.

HOLD: No action is performed.

V
U
E

4

SHFT>VUE

No function is performed by this button sequence.



Button Summary

The functions associated with each of the nine buttons is summarized below:

Button	Function Performed
VUE	Switches between 360-degree compass rose view and 70-degree ARC mode view.
↑	Increases the range (“zooms out”) on the map and Stormscope® displays if either is turned on.
↓	Decreases the range (“zooms in”) on the map and Stormscope® displays if either is turned on.
A-B	Switches between two groups of screen settings. Allows the pilot to set up two different displays and swap back and forth between them with a single button.
SYNC	Moves the heading bug to the top of the display, to align it with the current aircraft heading.
SHFT	Allows access to sub-menu functions.
BRG	Turns the bearing pointers on and off. Press repeatedly to display pointer 1, pointer 2, both, or “OFF”.
MAP	Selects map memory to display or turns it off completely.
NAV	Selects the nav source to be connected to the HSI course pointer, i.e. the primary nav source.



Sub-Menu Summary

The [SHFT] button accesses a sub-menu mode which provides even more functions. The following table summarizes the sub-menu functions:

Button	SCREEN LABEL	FUNCTION PERFORMED
VUE		No function performed.
↑	WX	Accesses control functions of the WX-500 Stormscope® remote sensor, if installed. Turns Stormscope® display on or off, clears existing display and allows selection of cell versus strike mode. Also accesses sytem sub-menu for self-test or demo mode.
↓		No function performed.
A-B	A=B	Copies the current screen settings into the inactive screen setting memory.
SYNC	DTK	Performs a course sync, i.e. turns the course pointer to the direct-to source.
SHFT	ESC (flashing)	Cancels the SHFT function.
BRG	BRG PTRS	Presents source selection for both bearing pointers.
MAP	MAP	Accesses map setup functions.
NAV	NAV	Accesses NAV functions. Selects approach mode control buttons for GPS, if enabled. Selects AUTO-SLEW, which allows the long-range nav source to automatically set the course pointer to the desired track. Controls display of the center D-bar for the CDI and GS needles.

