

# Carenado Seneca II Autopilot Flight System



## AUTOPILOT CALL-UP IN 2D POP-UP PANEL

Click on the right sticker to call up the 2D pop-up panel for autopilot ease of use. The autopilot features annunciator lights, to help you determine the mode the autopilot is currently in. To operate the 3D panel's autopilot, the yoke can be hidden for easy access, simply by clicking on its base.



## AUTOPILOT POWER ON/OFF

Press this button to engage the autopilot servos. If autopilot is not turned on, the different modes will only affect the Flight Director bar in the attitude indicator. No commands will be passed on to the servos unless this button is on.



## HEADING MODE

The Heading button causes the plane to track the heading bug in the HSI instrument. It will also automatically engage the servos when pressed (if they're not already engaged.)



## FLIGHT DIRECTOR

This switch will activate the flight director, which is a visual cue inside the artificial horizon instrument that suggests a path for the pilot to follow, based on the currently selected mode on the autopilot. With servos engaged, the servos will cause the plane to follow the cue. With servos disengaged, the pilot has to fly the plane along the cue manually.



## COURSE SELECTOR D.G.

The function of the heading mode switch is to add the D.G., heading command, and coupler functions to the basic roll attitude control.

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### PITCH COMMAND ROCKER SWITCH

The pitch command rocker switch is used to determine a climb or sink rate. Clicking on the “DN” end will effect a nose-down pitch. Clicking on the “UP” end will effect a nose-up pitch. In the case where the ALT button is selected, this rocker switch will temporarily cause the plane to rise or sink. Letting go of the rocker switch will allow the plane to settle to the new desired altitude.



### ALTITUDE HOLD

Engagement of the altitude hold switch will disengage pitch mode and initiate a smooth transition to the pressure altitude at which it was engaged. During Altitude hold mode, the “UP” and “DN” rocker switch will have a temporary effect while held down, allowing for smooth transitions to different altitudes.



### NAV MODE

The NAV button will guide the plane along the NAV deflections shown in the HSI. The autopilot will fly VOR or ILS signals from the NAV radio.



### BC MODE

This button engages the autopilot in Back Course approach mode. It allows the pilot to fly an ILS approach in reverse. Note that this mode does not direct the vertical component of the approach.



### APPR MODE

This button engages the autopilot in approach mode. It allows the pilot to fly an ILS approach.