KAP 140 Dual Axis Autopilot Quick Reference Card

Quick Tips

- ✦ The KAP 140 dual axis autopilot can control pitch and roll. The pilot must always control power and yaw.
- ✦ There are two rows of information shown on the autopilot display. The top row shows which modes you are currently in. The bottom row shows which modes are armed.
- ✦ Roll modes include wing leveler (ROL), heading select (HDG), NAV1 coupling (NAV), approach coupling (APR), and localizer back course (REV).
- ✦ Pitch modes include vertical speed (VS), altitude hold (ALT), and glideslope (GS).
- ✦ AP button: Autopilot engage/disengage button
- ✦ Altitude Select: The altitude set by the pilot using the rotary knobs.

Cessna 172R/S Autopilot Limitations

(Reference the appropriate PIM for the complete list of limitations)

Maximum Airspeed .... 140 KIAS
Minimum Airspeed .... 70 KIAS
Minimum Approach Speed.. 80 KIAS
Maximum Flap Extension.. 10 deg

Cessna T182T Autopilot Limitations

(Reference the appropriate PIM for the complete list of limitations)

Maximum Airspeed .... 160 KIAS
Minimum Airspeed .... 80 KIAS
Recommended Approach Speed .... 100 KIAS
Maximum Flap Extension.. 10 deg

The autopilot must be disengaged below 200 feet AGL during approach operations and below 800 feet AGL for all other phases of flight.

Preflight Requirements

Reference the appropriate supplement of section 9 of the PIM for specific preflight requirements.

> Visit
> www.iflywestwind.com/resources
> for more autopilot resources

How To…

Hold Current Heading and Altitude

1. Press and hold the **AP** button until the autopilot engages.
2. Verify that the autopilot is in ROL and VS (default modes).
3. Press the **HDG** button to follow the heading bug.
4. Press the **ALT** button to hold the current altitude.
   NOTE: The altitude set in the autopilot has no effect in this scenario. The autopilot will simply hold the current altitude when the ALT button is pressed.

Intercept/Track NAV1 and Hold Current Altitude

1. Press and hold the **AP** button until the autopilot engages.
2. Verify that the autopilot is in ROL and VS (default modes).
3. Press the **NAV** button to couple with the NAV1 OBS.
4. Press the **ALT** button to hold the current altitude.
   NOTE: The altitude set in the autopilot has no effect in this scenario. The autopilot will simply hold the current altitude when the ALT button is pressed.

Climb or Descend and Capture Altitude

1. Press and hold the **AP** button until the autopilot engages.
2. Verify that the autopilot is in ROL and VS (default modes).
3. Select the desired roll mode (ROL, HDG, NAV, APR, or REV)
4. Set the desired altitude in the autopilot using the **rotary knobs**.
5. Use the **UP** and **DN** buttons to set the desired vertical speed. NOTE: If the airplane is climbing or descending when the autopilot is first engaged, it will automatically capture the aircraft's current vertical speed.
6. Ensure that the ALT-ARM annunciation is show on the bottom row of the display (directly under the VS annunciation).
7. If necessary, press the **ARM** button to arm altitude capture. NOTE: If the ARM button is pressed when ALT-ARM is already annunciated, the autopilot will unarm and the desired altitude will not be captured.
8. Verify that the autopilot automatically changes from VS to ALT mode upon capturing the selected altitude.