

# S-76C++ Autopilot Guide

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## Lower Panel Controls

- **AP1 / AP2:** Engage or disengage each autopilot computer.
- **FD1 / FD2:** Selects which flight director drives the autopilots.
- **COLL:** Disengages or reengages collective coupling if collective can be used with current mode selections.
- **CPL:** Decouples or recouples actuators from Flight Director commands.
- **SAS / ATT:** Toggles Stability Augmentation or Attitude Retention.
- **TEST:** Runs a preflight check of the autopilot computers.
- **RAD ALT:** Uses collective to hold reference altitude above ground level.
- **VEL HLD:** Enables hover-augmentation mode.
- **AFCS Indicators:** Show current trim deflection status.
- **RA-315 Radio Altimeter:** Displays RA, sets decision height, and conducts tests.
- **AL-300 Air Data Display:** Shows recent reference changes or selected altitude in Altitude Preselect mode.
- **FTR:** While held retracts control according to user input.
- **Four-Way Switches:** Adjust trims or reference selections in various modes.

## Main Panel Controls: Flight Director Modes

- **Standby (SBY):** Cancels all attitude modes.
- **Heading Select (HDG):** Commands the aircraft to turn to and hold the selected heading.
- **Vertical Speed (VS):** Engages hold mode using current vertical speed.
- **Altitude Hold (ALT):** Maintains the current altitude.
- **Navigation (NAV):** Tracks a VOR, LOC, RNAV, or LNAV course selected on the HSI.
- **ILS:** Arms LOC and GS for full ILS approach guidance.
- **Deceleration (DECEL):** Automatically slows to 70 knots before reaching the runway.
- **VOR APR:** Optimized VOR approach capture; behaves like NAV if out of range.
- **Indicated Airspeed (IAS):** Engages hold mode using current speed.
- **Altitude Select (ALT PRE):** Arms and captures a preselected altitude.
- **Back Course (BC):** Tracks the reverse side of a localizer.
- **Go-Around (GA):** Cancels all vertical modes and initiates climb at most efficient airspeed.