Fifty Five X

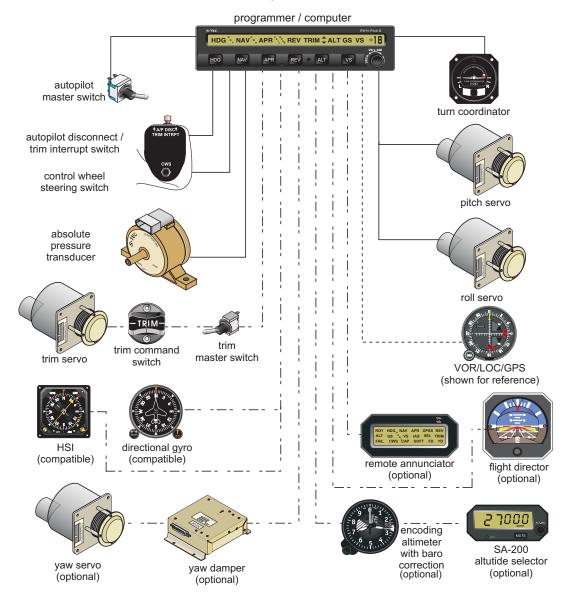
full-function two-axis flight control system

The System Fifty Five X is a high-performance, 2-axis (roll & pitch) autopilot in an avionics stack-mounted case, containing the mode selector/programmer, annunciator, roll & pitch computers, and servo amplifiers.

HDG (heading) mode & NAV mode (coupled navigation) automatically intercepts and tracks heading pre-select and hold* when HDG & NAV are enroute NAV signals (VOR/GPS), or activated simultaneously, LOC (REV for backcourse). 3-level gain control wheel steering (CWS) enables dual mode Intercept. selection for NAV mode is automatic. allows you to hand-fly the aircraft Autopilot operates in heading When APR is lit (simultaneous with NAV), and then let the autopilot takeover mode to automatically indicates high gain localizer mode for high to hold the existing turn rate and intercept and track selected sensitivity coupled approach. Flashing NAV vertical speed. course or localizer; at which or REV annunciates course deviation by a point HDG extinguishes. needle deflection of 50% or more. Selecting APR increases gain sensitivity for VOR or GPS approaches. FIFTY FIVE X S-TEC REV TRIM ALT GS IDG 🖔 NAV°w **HDG NAV APR REV ALT VS** mode selector buttons VS knob dials TRIM and up/down arrows HDG (heading hold and digital vertical speed heading pre-select*) annunciate motion of auto trim or manual in 100' increments. NAV (tracking VOR enroute) electric trim, if equipped; if not equipped, APR (higher gain for GPS annunciates out-of-pitch-trim condition. enroute & LOC, VOR & GPS approaches) pitch mode GPSSby S-TEC (GPS Steering) **REV** (LOC backcourse) includes; VS, indicating vertical speed integrates A/P with GPS Navigator function, **ALT** (altitude hold) which outputs roll steering commands. control has been selected; ALT **VS** (vertical speed command) indicating altitude hold is engaged, GPSS does not follow a CDI needle movement; it acts on direct roll steering commands capturing existing altitude when activated; and GS, indicating glide from the Navigator for extremely accurate, slope coupling is armed and/or active. hands-off GPS navigation. See separate GPSS data sheet for details. In altitude hold mode, altitude can be adjusted (trimmed) in 20' increments using VS knob.

^{*} Operational if compatible heading system (e.g. DG or HSI with heading bug) is installed and active.

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features / functions

- radio stack mount
- ▼ GPSS by S-TEC (GPS roll steering)
- heading preselect & hold
- ▼ altitude hold with optional altitude trim
- course intercept capability
 NAV mode
 dual mode HDG/NAV & HDG/APR
- VOR/LOC/GS/REV/GPS coupling with 3 gain levels
- ▼ selectable coupling gain
- VOR/LOC/GS/REV/GPS course deviation and NAV flag warning
- digital vertical speed command
- pitch trim annunciation
- r control wheel steering

options

- ▶ DG / HSI compatible
- ▼ single cue flight director interface compatible
- ▼ SA 200 Altitude Selector w/encoding altimeter
- ▼ ST-360 Altitude Selector/Alerter
- remote annunciator
- ▼ automatic or manual electric trim (where STC'd)
- Yaw Damper (where STC'd)

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