

MILVIZ DHC2 Beaver

Honeywell KAP 140 Autopilot system

(Sources: Honeywell KAP 140 Pilot's guide – Honeywell KAP 140 Installation Manual)

KAP 140 Two Axis with Altitude Preselect Operation - Introduction

The KAP 140 Autopilot System included in the Beaver is a rate based digital autopilot system offering smooth performance and enhanced features found only in more expensive autopilots. The first of its type developed by Honeywell, this system brings digital technology and reliability into the light aircraft cockpit.



KAP 140 roll axis features include wing leveler, heading select and VOR/LOC intercept and tracking. The KAP 140 can also be coupled to GPS and RNAV receivers as well. Roll rate information is derived from the turn coordinator.

Pitch axis features include vertical speed, glideslope and altitude hold along with altitude preselect option. Pitch information is derived from a pressure sensor and accelerometer. The KAP 140 Autopilot System operates independent of the aircraft's artificial horizon. Therefore, the autopilot retains roll stabilization and all vertical modes in the event of vacuum system failure.

KAP 140 features in Beaver's version

DG (Directional Gyro)	YES
Turn Coordinator	YES
Automatic Electric Elevator Trim	NO
Manual Electric Trim	NO
FUNCTION MODES	ALT Hold (ALT); ALT Preselect/ALERT; Heading Select (HDG); NAV (VOR/RNAV/GPS); Approach (APR); Glideslope (GS); Back Course (REV); Wing Leveler (ROL); Vertical Speed Hold (VS)
Control Wheel Steering (CWS)	NO
Auto Capture	YES
Auto Track	YES
All Angle Intercept	YES (from ROL mode)
Auto 45-degree Intercept	YES (from HDG mode)
Remote Barometric Input	NO