

GPSS Switch

Excerpts from the manual

The GPSS Converter - Ops Modes

- HDG Mode - Used to turn onto a Selected Heading and Hold it



a. HDG Mode Engaged



b. GPSS Mode Engaged

- GPSS Mode - Used to Laterally Steer along a Course defined by Waypoints, that have been programmed into the GPS Navigator

Heading (HDG) Mode

- Set the Heading Bug to the desired heading on the compass card (HSI or DG).
- Engage the GPSS Converter's HDG mode.
- Engage the autopilot's HDG mode.

The autopilot will turn the aircraft onto the selected heading and hold it. The turn rate will be limited to 90% of a standard rate turn.

GPS Steering (GPSS) Mode

- Set the Heading Bug under the Lubber Line.
- Engage the GPSS Converter's HDG mode.
- Engage the autopilot's HDG mode.
- Program the GPS Navigator with a sequence of waypoints, as a means to define the desired course.
- Engage the GPSS Converter's GPSS mode.

The autopilot will begin to laterally steer the aircraft along the course (i.e., track the course).

GPS Steering (GPSS) Mode II

- If GPS Navigator has not been programmed with a sequence of waypoints attempting the GPSS mode will hold the aircraft at wings level, and the GPSS lamp will flash on the HDG / GPSS Selector Switch.
- Engaging any autopilot roll mode other than HDG (i.e., NAV, APR, REV, STB, LO TRK, HI TRK) will decouple the autopilot from the GPSS mode.

Approach Procedures

- Set the Heading Bug under the Lubber Line.
- Engage the GPSS Converter's HDG mode.
- Engage the autopilot's HDG mode.
- Program the GPS Navigator with the desired approach.
- Engage the GPSS Converter's GPSS mode.
- The autopilot will begin tracking to the Initial Approach Fix (IAF).

Procedure Turn or Holding Pattern

- Engage the GPSS Converter's HDG mode.
- Lead the aircraft around the procedure turn or holding pattern using the Heading Bug.
- Once established on the inbound course, engage the GPSS Converter's GPSS mode.
- Complete the approach.

Emergency Procedures

- Disconnect the autopilot.
- Regain control of the aircraft.
- Do Not attempt to use the GPSS Converter's HDG mode or GPSS mode.
- Do Not attempt to use the autopilot's HDG mode.

Note: It may be possible to use other autopilot roll modes (i. e., NAV, APR, REV, STB, LO TRK, HI TRK).