

# **S-TEC 30**

Excerpts from the manual

# Power Up



All illuminated

# Power Up



TRIM UP off

# Power Up



ALT only

# Power Up



All off

# Power Up



Ready

# Fail



No lights

# Low Voltage



Flag

FLAG



# Stabilizer (ST) Mode



- Set the L/R Turn Knob under index, engage the stabilizer mode.
- The autopilot will hold the aircraft at wings level.
- Turning the L/R Turn Knob will cause the aircraft to turn either left or right.

# Heading (HD) Mode



- Set the Heading Bug on HSI; engage the heading mode.
- The autopilot turns the aircraft onto the selected heading and holds it.
- A new heading can be subsequently selected by setting the Heading Bug to it.

# Low Track (LO TRK) Mode



- Select the VOR frequency.
- Maneuver to within  $\pm 1$  CDI needle width and  $\pm 10^\circ$  heading of the course.
- Engage the low track mode.
- The A/P tracks the course with min authority ignoring short term CDI needle excursions to inhibit aircraft scalloping during VOR station passage.

# High Track (HI TRK) Mode LOC



## LOC course tracking

- Select the LOC frequency.
- Maneuver the aircraft to within  $\pm 1$  CDI needle width and  $\pm 10^\circ$  course heading.
- Engage the high track mode.
- The autopilot will track the selected course with maximum authority.

# High Track (HI TRK) Mode GPS



## GPS Course Tracking

- Program a predefined course into the GPS Receiver: course segments connected by waypoints.
- Maneuver the aircraft to within
- $\pm 1$  CDI needle width and  $\pm 10^\circ$  heading of each successive course segment.

# High Track (HI TRK) Mode GPS II



## GPS Course Tracking

- Engage the high track mode.
- The autopilot will track the selected course segment with maximum authority.

# High Track (HI TRK) Mode VOR



## VOR Course Tracking

- Select the VOR frequency.
- Maneuver the aircraft to
- within  $\pm 1$  CDI needle width and  $\pm 10^\circ$  course heading of the selected course.

# High Track (HI TRK) Mode VOR II



## VOR Course Tracking

- Engage the high track mode.
- The autopilot will track the selected course with maximum authority.
- The aircraft may exhibit scalloping during VOR station passage.



# Altitude Hold (ALT HOLD) Mode



The altitude hold mode can only be engaged if a roll mode (ST, HD, LO TRK, HI TRK) is engaged.

- Maneuver to the desired alt.
- Engage the altitude hold mode.
- The autopilot will hold the aircraft at its current (captured) absolute pressure altitude.

# Altitude Hold (ALT HOLD) Mode II



In the alt hold mode the autopilot will provide a prompt whenever it is necessary to manually trim the aircraft about the pitch axis when the pitch servo loading exceeds a preset threshold for a period of three seconds.

- The TRIM UP lamp or TRIM DN lamp will become illuminated, as a prompt to trim the aircraft in the indicated direction. An audible alert will sound a steady tone.
- If no action is taken after four more seconds, then the lamp will flash and the audible alert will become periodic.

# Autopilot Disconnect

- Press optional AP DISC Switch typically located on Control Wheel.
- Press/Hold PUSH MODE Switch located on bezel for 3 seconds.
- Set Autopilot Master Switch to OFF position.
- Pull Autopilot Circuit Breaker.