

## Autopilot Modes

### 4 Modes of Horizontal Navigation:

#### 1) Heading Mode

Tracks From: ..... Heading Bug  
 To Initiate:.....  
 Heading Bug on HSI:.....set within 10\* of Current HDG  
 Activate ..... Press “HDG”

#### 2) GPSS Steering Mode

Tracks From: .....GPS1 NAV Only  
 To Initiate.....  
 GPS 1 Nav: ..... Activated to Destination  
 Activate:..... Press “NAV” Twice

#### 3) NAV Mode

Tracks From: ..... HSI  
 To Initiate.....  
 GPS 1 or 2/ VLOC 1 or 2: ..... Programmed  
 Upper Left PFD Button (Nav) ..... Select proper HSI source  
 Activate:..... Press “NAV” Once

#### 4) HDG+NAV Mode

Tracks From: .....HDG Bug, Then HSI  
 To Initiate.....  
 GPS 1 or 2/ VLOC 1 or 2: ..... Programmed  
 Upper Left PFD Button (Nav) ..... Select proper HSI source  
 Heading Bug: .....Set to Proper Intercept Angle  
 Activate:..... Press “HDG” THEN “NAV” (Slowly)

### Vertical Navigation/Altitude Hold

Desired Altitude: ..... Programmed on PFD ALT Bug  
 Desired VSI:..... Programmed on PFD VSI Bug  
 To Activate:  
 Horizontal Navigation..... must be active  
 AutoPilot..... Press and Hold VS Button  
 AutoPilot..... Press ALT Button, and Then Release Both  
 ALT HOLD ONLY..... Press ALT Button(w/Horiz-Nav active)

### Emergency:

Best Glide @ 3000 lb .....96 KIAS  
 Best Glide @ 2500 lb .....87 KIAS  
 Best Glide Ratio/Zero Wind.....1.2 Miles per 1000 Feet AGL

### Emergency Landing:

Flaps Up.....86 KIAS  
 Flaps 50%.....81 KIAS  
 Flaps 100%.....75 KIAS

### Takeoff Rotation:

- Normal, Flaps 50%.....67 KIAS
- Short Field, Flaps 50%.....65 KIAS
- Obstacle Clearance, Flaps 50%.....75 KIAS

### Enroute Climb, Flaps Up:

- Normal.....105 KIAS
- Best Rate of Climb.....96 KIAS
- Best Angle of Climb.....81 KIAS

### Landing Approach:

- Normal/Short Field Approach, Flaps 100% .....75 KIAS

### Go-Around, Flaps 50%:

- Full Power.....75 KIAS

### Maximum Recommended Turbulent Air Penetration:

- 3000 Lb.....131 KIAS
- 2200 Lb.....111 KIAS

### Maximum Demonstrated Crosswind Velocity:

- Takeoff or Landing .....21 KIAS

### Stall Speeds:

Flaps 100, Level Flight, 3000Pd/Forward CG..... 56  
 Flaps 0, Level Flight, 3000Pd/Forward CG..... 65  
 Full Flaps, 30 Degree Bank, 3000Pd/Forward CG..... 61

### Parachute Operation

**Before Deploy:** Throttle/Mixture Off, Speed<135, Steady Pull

**After Deploy:** Fuel Off, Radio 121.5/7700 time permitting; Mags Off, Switches OFF, ELT ON, Seat Belts Tight, Door Open