

Climbing

Rotate (V_R)55-60 kts
 Normal Climb.....80 kts
 Best Rate (V_Y).....78 kts
 Best Angle (V_X).....64 kts
 Enroute.....+80 kts

Descending

Speed - Flaps - Power

Best Glide.....65 kts 0° Idle
 Normal/Approach.....70 kts 20° 15-1700
 Obstacle Clearance...60 kts 40° 15-2000
 Enroute.....+80 kts 0° 18-2400

Maximum Flap Extension (V_{FE})85 kts

Stall Speed – Clean (V_S).....47 kts

Stall Speed – Dirty (V_{SO}).....42 kts

Maximum Cruising Speed (V_{NO}).....128 kts

Never Exceed Speed (V_{NE}).....160 kts

Maneuvering Speeds (V_A)

1600 lbs.....80 kts

1950 lbs.....89 kts

2300 lbs.....97 kts

Climbing Procedure

Entry

1. Cockpit Checks
2. Lookout
3. Attitude
4. Power
5. Trim

Recovery

1. Attitude
2. Power
3. Trim
4. Lookout
5. Cockpit Check

- *Carb Heat Off / Mixture Rich during climbs
- * Monitor Engine Oil Temps and Pressures
- * High Speeds & Low AOA improves cooling
- * Avoid prolonged climbs at High AOA
- * Lean Mixture in cruise above 2000' AGL

Descending Procedure

Entry

1. Cockpit Checks
2. Lookout
3. Power
4. Attitude
5. Trim

Recovery

1. Power
2. Attitude
3. Trim
4. Lookout
5. Cockpit Checks

- *Carb Heat On whenever power is below 2200
- * Mixture Rich prior to descending
- * Monitor Engine Oil Temps and Pressure
- * Avoid prolonged descents at low power
- * Lean Mixture in cruise above 2000 feet AGL

Cruise Power - 2300 RPM Airspeed = 90 kts

Performance

Basic Empty Weight1431.9 lbs

Moment.....56512" lbs

MCTOW.....2300 lbs

Useful Load.....868 lbs

Baggage (120/80lbs).....Max 120 lbs

Oil Capacity (Quarts).....8 Max / 6 Min

Fuel Capacity (Useable).....38 U.S.Gal

Fuel Capacity (Pounds).....228 lbs Full

Fuel Burn Average.....9 Gal./hr

Avg. Range @ 2300 RPM.....400 NM

Avg. Endurance @ 2300 RPM.....4 Hours