

F33 BONANZA IFR-CHECKLIST

AIRCRAFT PREP COMPLETED

PREFLIGHT CHECK

- | | |
|--------------------------|--------------------|
| 1 Outside check | COMPLETE- OIL 8-12 |
| 2 Fuel quantity | CHECKED |
| 3 Mass & balance | CHECKED |
| 4 Baggages | STOWED/SECURED |
| 5 All documents on board | CHECKED |

PREFLIGHT CHECK COMPLETED

CHECK BEFORE ENGINE START

- | | |
|----------------------------------|-------------------|
| 1 Seat & seatbelts | ADJUSTED / FASTEN |
| 2 Gear selector | DOWN |
| 3 Emergency gear handle | STOWED |
| 4 Alternate air | CLOSED |
| 5 Alternate static pressure | CLOSED |
| 6 Propeller Anti-Ice Switch | OFF |
| 7 Cowl flaps | OPEN (draw) |
| 8 Flight controls | CHECKED |
| 9 Parking brake | SET |
| 10 Clock | SET |
| 11 Electrical switches | OFF |
| 12 Circuit breakers | ALL IN |
| 13 Battery - & alternator switch | ON |
| 14 Fuel quantity | WHITE ARC |
| 15 Fuel selector | FULLER TANK |
| 16 Gear lights / Annunciator | TEST / CHECK |
| 17 Avionic master switch | ON |
| 18 Atis | CHECKED |
| 19 Startup & Clearance | REQUEST |
| 20 COM / NAV / GPS / AUDIO SET | |
| 21 Avionic master switch | OFF |

CHECK BEFORE ENGINE START COMPLETED

STARTING COLD ENGINE

- | | |
|------------------------|--------------------------|
| 1 Beacon | ON |
| 2 Throttle | FORWARD / FULL |
| 3 Propeller | FORWARD / HIGH |
| 4 Mixture | FORWARD / RICH |
| 5 Electrical fuel pump | ON |
| 6 Fuel flow | STABILIZED |
| 7 Electrical fuel pump | OFF |
| 8 Throttle | 1 cm open (draw +2*back) |
| 9 Propeller area | FREE |
| 10 Ignition | START |
| 11 RPM | 1000 – 1200 RPM |
| 12 Ampmeter | CHECKED / POSITIV |
| 13 Oil pressure | CHECKED / GREEN |
| 14 Suction | CHECKED / GREEN |

STARTING ENGINE COMPLETED

1 BEFORE TAXI

- | | |
|------------------------------|-----------------|
| 2 Avionic master switch | ON |
| 3 Slaving selector on slave | CHECKED |
| 4 Altimeters | SET, FIELD ELEV |
| 5 Autopilot | TEST |
| 6 HDG – BUG | RWY IN USE |
| 7 Horizon | CHECK AND SET |
| 8 Navigation lights | ON |
| 9 Request taxi | |
| 10 Taxi lights | ON |
| 11 Wings free, parking brake | OFF |

BEFORE TAXI COMPLETED

TAXI CHECK

- 1 Both brakes and steering CHECKED

STRAIGHT AHEAD

- | | |
|-----------|---------|
| 2 ALT/VS1 | CHECKED |
|-----------|---------|

3 LEFT TURN

- | | | | |
|------|------------|-------------|------------|
| Gyro | DECREASING | Turn & Bank | LEFT |
| Ball | RIGHT | Horizon | STABILIZED |

4 RIGHT TURN 4

- | | | | |
|------|------------|-------------|------------|
| Gyro | INCREASING | Turn & Bank | RIGHT |
| Ball | LEFT | Horizon | STABILIZED |

TAXI CHECK COMPLETED

RUN-UP

- | | |
|--------------------------------|--------------------------|
| 5 Parking brake | SET |
| 6 Taxi light | OFF |
| 7 Engine instruments | CHECKED all GREEN ARC |
| 8 Throttle | SET 1700 RPM |
| 9 Magnetos | CHECKED drop 175 diff-50 |
| 10 Propeller 1-2X | CHECKED (1400) |
| 11 Mixture | CHECKED |
| 12 Alternate air (IFR) | CHECKED |
| 13 Oil pressure, amp & suction | CHECKED |
| 14 Throttle idle | CHECKED (500 – 700 RPM) |
| 15 Throttle | SET 1000 RPM |

RUN-UP COMPLETED

CHECK BEFORE DEPARTURE

- | | |
|--------------------------|--------------------|
| 1 Fuel selector | FULLER TANK |
| 2 Mixture | RICH / AS REQUIRED |
| 3 Propeller | HIGH RPM |
| 4 Flaps | UP, CHECKED |
| 5 Cowl flaps | OPEN, draw |
| 7 Trims | UP - NEUTRAL |
| 8 Flight controls | FREE, CHECKED |
| 9 Cabin, doors & windows | SECURED / CLOSED |
| 10 Passengers | SECURED |

IFR PREPARATION

- 1 ATC Clearance and SID READ/CHECKED
- 2 Avionic Setting CHECKED
- 3 **AUDIO Panel** CHECKED
- 4 MKR CHECKED
- 5 GYRO & HDG – Bug CHECKED
- 6 Flightplan – GPS EDIT READ CHECKED
- 7 Transition Altitude READ CHECKED
- 8 TAKE – of - Briefing ROUTE, SPEED

EMERGENCY BRIEFING

- 9 On the Runway Throttle Back / Brake / Return
- 10 After Departure Nose Down / Glide Speed 105Kt
- 11 Select Landing Field

CHECK BEFORE DEPARTURE COMPLETED

LINE UP CHECK

- 1 Approach sector & runway CHECK, FREE
- 2 Landing light ON
- 3 Strobe lights ON
- 4 Transponder SET
- 5 Pitot - heat AS REQUIRED
- 6 Propeller Anti-Ice Switch AS REQUIRED

LINE UP CHECK COMPLETED

TAKE OFF CHECK

WHEN ESTABLISHED ON CENTERLINE

- 1 Gyros CHECKED 1
- 2 HDG – BUG SET RWY HEADING 2

WHEN CLEARD FOR TAKE - OFF

- 1 Time CHECKED / NOTED
- 2 Throttle advance full 29.6 MP – 2700 RPM

CALL OUT DURING TAKE OFF

- 1 Power Check 29.6 MP / 2700 RPM
- 2 Speed up CHECKED
- 3 Rotate Vr = 71 KIAS

TAKE OFF CHECK COMPLETED

AFTER DEPARTURE

- 1 Positive Rate SPEED CHECKED
- 2 Increase speed (Vx) 77 KIAS
- 3 Gear Break BREAK and UP (end rwy)
- 4 Increase speed (Vy) 96 KIAS
- 5 Throttle Control 25 MP 5
- 6 Propeller Control 2500 RPM
- 7 Mixture 20 GAL / H

AFTER TAKE OFF CHECK COMPLETED

CLIMB CHECK

- 1 Gear UP
- 2 Flaps UP
- 3 Cowl flaps OPEN
- 4 Power 25 MP 2500 RPM 20 G/h
- 5 Landing light AS REQUIRED

WHEN PASSING TRANSITION ALTITUDE

- 6 Altimeters STANDART...(1013)
- 7 Cruise climb 107 KIAS

CLIMB CHECK COMPLETED

CRUISE CHECK

- 1 Altimeter & gyro SET
- 2 Cruise power / mixture 22/2300/14-15 G/h.
- 3 Cowl flaps AS REQUIRED
- 4 Pitot - heat AS REQUIRED
- 5 Propeller Anti-Ice AS REQUIRED
- 6 Engine instruments CHECKED (Green)
- 7 Fuel quantity CHECKED (ENDURANCE)

CRUISE CHECK COMPLETED

DESCENT CHECK

- 1 ATIS RECEIVED
- 2 Approach briefing COMPLETED
- 3 Circuit Breakers CHECKED
- 4 Directional Gyro CHECKED / SET
- 5 Further Planning AVIONIC SET
- 6 Mixture (when descending) AS REQUIRED

DESCENT CHECK COMPLETED

APPROACH CHECK (WHEN CLEARD TO AN ALTITUDE)

- 1 Altimeter SET
- 2 Landing light ON
- 3 Fuel CHECKED
- 4 Fuel selector FULLER TANK
- 5 Fuel pump OFF
- 6 Cowl flaps CLOSED

APPROACH CHECK COMPLETED

POWER SETTING

Power Not below 20 MP (APP Speed 20/23)
Flaps below 154 KIAS App 15° / below 123 KIAS 30°

Gear below 154 KIAS App speed 90-95 KIAS

WIND

Max Crosswind 17 Kt

Head Wind over 10 Kt + 1/2 to App. Speed

WHEN CLEARED FOR THE APPROACH

- 1 Navigation Setting HSI SET TO VLOC/GPS

BEFORE STARTING DESENT

- 1 Flaps 10 DEGREES
- 2 Gear DOWN at glideslope
- 3 Mixture RICH

FINAL CHECK

- 1 Speed 80 Kts
- 2 Gear down 3 GREENS
- 3 Flaps AS REQUIRED
- 4 Propeller FULL FORWARD
- 5 Mixture RICH / AS REQUIRED
- 6 Speed 80 KT THRESHOLD
70 KT FULL FLAPS

FINAL CHECK COMPLETED

GO AROUND

- 1 Full Power SET
- 2 Positive Rate CHECKED
- 3 Flaps SET POS 1 (15°)
- 4 Gear UP
- 5 Speed 77 Kts
- 6 Flaps UP
- 7 Go Around PROCEED

GO AROUND COMPLETED

AFTER LANDING CHECK)

- 1 Landing lights OFF or AS REQUIRED
- 2 Strobe lights OFF
- 3 Pitot heat OFF
- 4 Propeller Anti-Ice OFF
- 5 Transponder SBY or AS REQUIRED
- 6 Flaps UP
- 7 Cowl flaps OPEN
- 8 Time NOTED

AFTER LANDING CHECK COMPLETED

ENGINE SHUT DOWN AND PARKING

- 1 Parking brake SET
- 2 Throttle SET 1000 RPM
- 3 Radio master OFF
- 4 Electrical switches ALL OFF
- 5 Alternator OFF
- 6 Mixture LEAN / CUT OFF
- 7 Ignition key OFF
- 8 Battery master OFF
- 9 Parking brake OFF
- 10 Flight Data NOTED / COMPLETED

PARKING CHECK COMPLETED

SPEEDS

Vr	71 Kts
Vx	77 Kts
Vy	96 Kts
VA	134 Kts
VFE	150 Kts
Approach	90-95 Kts
V final	80 Kts
Landing	70 Kts
Vso	
Vsp	
Max Crosswind	17 Kts
Vglide	105 Kts

Emergency:

Emergency Descent	154 kt
Best Glide	105 kt
Landing without Engine	83 kt
Emergency Frequency	121.5
Loss of Communication	7600
Emergency	7700

Engine Power Loss

Fuel Pump ON / Fuel Selector other Tank /	
Mixture Rich / Alternate Air on / Restart	
Max Take OFF Weight	3400 Lbs
Empty Weight	2310 Lbs
Fuel	74 Gal / 280 Lt
Fuel Flow	15 Gal / > 4 Hours 45min