

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 +2*back)	1 cm open (draw
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 CLEARD 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