

PILOT CHECKLIST

Peter Cassidy
6206 Belle Rive Dr.
Brentwood, Tenn. 37027
615-370-4756
615-804-2252 mob.

pcassidy@cassidys.ca
www.cassidys.ca

BONANZA A36 WITH IO-550B



N395SA

Critical Items are printed in red.

NORMAL PROCEDURES

PREFLIGHT INSPECTION [Do-Read]

Cabin

1. Emergency Exits Safety Wire INTACT
2. Seats and Belts PROPERLY INSTALLED
3. Baggage CHECK LOADING AND DISTRIBUTION; SECURE

Cockpit

1. Landing Gear Handle DOWN
2. Control Locks REMOVE AND STOW
3. Battery Switch ON
4. All Switches (Except Rotating Bcn) OFF
5. Lights CHECK FOR NIGHT FLIGHT
6. Parking Brake OFF
7. Trim Tabs SET TO ZERO
8. Fuel Quantity CHECK
9. ELT ARMED
10. Battery Switch OFF
11. Landing Gear Emergency Handcrank STOWED AND ACCESSIBLE
12. Oxygen System CHECK

Fuselage Right Side

1. Static Port UNOBSTRUCTED

Empennage

1. Vertical Stabilizer CHECK FOR DAMAGE
2. Horizontal Stabilizer CHECK FOR DAMAGE
3. Static Wicks CHECK
4. Elevator CHECK MOVEMENT AND SECURITY
5. Elevator Trim Tabs... CHECK ALIGNMT AND SECURITY
6. Rudder CHECK MOVEMENT AND SECURITY
7. Rudder Balance Weight CHECK
8. Tail Cone, Tail Light, Rotating Beacon CHECK
9. Tail Tiedown REMOVE

PREFLIGHT

Fuselage Left Side

1. Cabin Air Inlet CLEAR
2. Cabin Exhaust Vent CLEAR
3. Static Port UNOBSTRUCTED
4. All Antennas and Lower Beacon.....CHECK

Left Wing Trailing Edge

1. Flap.....CHECK SECURITY AND CONDITION
2. Aileron.....CHECK FREEDOM OF MOVEMENT AND SECURITY
3. Aileron Trim Tab CHECK ALIGNMT AND SECURITY
4. Static WicksCHECK

Left Wing Leading Edge

1. Wingtip and LightsCHECK
2. Stall Warning Vane.....CHECK OPERATION
3. Pitot Tube REMOVE COVER
CHECK UNOBSTRUCTED
4. Siphon Break Port..... UNOBSTRUCTED
5. Wing Tiedown REMOVE
6. Fuel.....CHECK QUANTITY
7. Fuel Cap CHECK O-RING AND SECURE
8. Wing.....CHECK FOR DAMAGE
9. Gear Doors, Tire, Brakes, Shock Strut.....CHECK
10. Landing Gear Uplock, Roller, SpringCHECK
11. Fuel Vent and Flush Vent UNOBSTRUCTED
12. Fuel SumpDRAIN AND INSPECT FUEL
13. Fuel Selector Valve Sump..DRAIN AND INSPECT FUEL
SECURE ACCESS DOOR

Nose Section

1. Left Cowl Flap.....CHECK
2. Engine and Baffling.....CHECK
3. Engine Oil CHECK >8 QTS; SECURE CAP
4. Brake Fluid ReservoirCHECK QUANTITY
5. Left Cowling SECURE
6. Nose Gear Doors, Tire, Shimmy
Damper, Shock Strut.....CHECK

PREFLIGHT

- 7. Tow Pins, Scissor LinkageCHECK
- 8. Taxi and Landing LightsCHECK
- 9. Induction Air Intake CLEAR
- 10. Propeller and Spinner CHECK FOR NICKS,
SECURITY, OIL LEAKS,
CONDITION OF DEICE BOOTS
- 11. Engine and Baffling (Right Side).....CHECK
- 12. Right Cowling..... SECURE
- 13. Right Cowl FlapCHECK
- 14. Wheel Chocks..... REMOVED

Right Wing Leading Edge

- 1. Fuel SumpDRAIN AND INSPECT FUEL
- 2. Fuel Vent and Flush Vent UNOBSTRUCTED
- 3. Gear Doors, Tire, Brakes, Shock Strut.....CHECK
- 4. Landing Gear Uplock, Roller, SpringCHECK
- 5. Fuel.....CHECK QUANTITY
- 6. Fuel Cap CHECK O-RING AND SECURE
- 7. Siphon Break Port..... UNOBSTRUCTED
- 8. Wing Tiedown REMOVE
- 9. Wing.....CHECK FOR DAMAGE
- 10. Wingtip and LightsCHECK

Right Wing Trailing Edge

- 1. Static WicksCHECK
- 2. Aileron.....CHECK FREEDOM OF
MOVEMENT AND SECURITY
- 3. Flap.....CHECK SECURITY AND CONDITION
- 4. Utility Doors SECURE

PREFLIGHT

BEFORE START

[Read-Do]

1. Passenger Safety Briefing COMPLETE
2. ATIS (Use Handheld Rx).....GET DEP INFO
3. Enroute Charts - Initial..... OPEN
- Others..... AVAILABLE
4. Approach Plates - Dep Apt OPEN
- Dest Apt..... PULLED
- Alt Apt..... AVAILABLE
5. Flight Plan As Filed..... AVAILABLE
6. Sectionals for Route AVAILABLE
7. Seats..... POSITION FOR TAKEOFF
8. Rudder Pedals ADJUST
9. Seat Belts and Shoulder HarnessADJUST, FASTEN
10. Cell Phones OFF

11. Landing Gear Handle..... DOWN
12. Cowl Flaps OPEN
13. Avionics Circuit BreakersCHECK
14. Flashlights.....CHECK
15. Alternate Static SourceNORMAL POSITION
16. Left Side Circuit BreakersCHECK
17. Fuel Selector ValveCHECK OPERATION
SEL FULLEST TANK
18. Battery, Alt and Sby Alt ON
19. Annunciators..... TEST
20. Avionics Master OFF
21. Rotating Beacon ON
22. Standby Pressure System TEST
23. Landing Gear Down Indicators 3 GREEN
24. Bus Voltage..... 24 VOLTS
25. Fuel Quantity Indicators.....CHECK

BEFORE START

STARTING

[Do-Read]

Propeller HIGH RPM

Cold Start

- a. Mixture FULL RICH
- b. Throttle FULL OPEN
- c. Aux Fuel Pump..... CHECK LOW; HI UNTIL
FLOW PEAKS, THEN OFF
- d. Throttle CLOSE, THEN OPEN 1/2 INCH
- e. Magneto/Start Switch..... START

Flooded Start

- a. Mixture IDLE CUTOFF
- b. Throttle FULL OPEN
- c. Magneto/Start Switch START; AS ENGINE STARTS
REDUCE THROTTLE TO IDLE AND
INCREASE MIXTURE TO FULL RICH

Hot Start

- a. Mixture IDLE CUTOFF
- b. Aux Fuel Pump..... HI 30-60 SEC, THEN OFF
- c. Mixture FULL RICH
- d. Throttle FULL OPEN
- e. Aux Fuel Pump CHECK LOW; HI FOR
SHORT BURST, THEN OFF
- f. Throttle CLOSE, THEN OPEN 1/2 INCH
- g. Magneto/Start Switch..... START
- h. Aux Fuel Pump HI MOMENTARILY AS REQ'D

AFTER START

[Do-Read]

- 1. Bus Volts 28 VOLTS
- 2. Alternator Load CHECK
- 3. Oil Pressure 10 PSI WITHIN 30 Sec
- 4. RPM..... 1,000 to 2,000 RPM
- 5. Mixture GROUND LEAN
- 6. Annunciators OFF
- 7. Instrument Air Pressure CHECK
- 8. Avionics ON

START - AFTER START

BEFORE TAXI

[Read-Do]

-
1. ATIS GET DEP INFO
 Altimeter **SET**
 GNS 430 - Active Com CLNC DEL
 - Sby Com GROUND

 2. Clearance Delivery GET ENR CLEARANCE

 3. **Autopilot** **SET DEP ALT**
 Transponder **SET CODE**
 GNS 530 - Avtive Com SET DEP FREQ
 4. Lights NAV ON for NIGHT
 5. Cabin Heat, AC AS REQ'D
 6. Circuit Breakers CHECK ALL IN
 7. Oil Temperature ABOVE 24° C FOR
 OPER ABOVE 1,200 RPM

TAXI

[Do-Read]

-
1. Ground GET TAXI CLEARANCE
 2. Parking Brake OFF
 3. Brakes RELEASE AND CHECK
 4. Taxi To Runup Area
 Gyro Instruments CHECK DURING TAXI

BEFORE TAXI - TAXI

RUNUP

[Read-Do]

Runup

1. Throttle..... 1,700 RPM
2. Magnetos MAX DROP 150 RPM;
BETWEEN TWO 50 RPM
3. Propeller EXERCISE FOR 200 RPM DROP
4. Instrument Air Pressure.....CHECK
5. Idle..... CHECK, THEN 1,000 to 1,200 RPM

Avionics

1. Autopilot..... SET DEP ALT, ARM
VS, +700 fpm
2. GNS 530 - Dep Freq SET
- Flight Plan.....LOADED
- CDI SOURCE = GPS
- NAV Freq LOCAL APP IN USE
3. GNS 430 - Flight Plan.....LOADED
- NAV Freq INITIAL ENR VOR
- CDI SOURCE = VLOC
4. Transponder..... SET CODE

Instruments

1. Engine Instruments.....CHECK
2. Annunciator Lights..... CONSIDERED
3. Flight Instruments CHECK AND SET
4. VOR Accuracy 30 DAYS, RECORD IN LOG
5. HSI CRS = INITIAL ENR HDG
BUG = DEP HDG

Controls

1. Fuel.....SWITCH TO FULLER TANK
2. Standby Alternator..... TEST
3. Pitot Heat..... TEST; ON AS REQ'D
4. Prop Deice..... TEST; ON AS REQ'D
5. Flight Controls..... FREE AND CORRECT
6. Electric Pitch Trim TEST
7. Trim SET FOR TAKEOFF
8. Flaps.....CHECK
9. Seat Belts and Shoulder Harnesses.....CHECK
10. Doors and Windows..... SECURE
11. Writing DeskSTOWED

RUNUP

BEFORE TAKEOFF FINAL ITEMS [Do-Read]

1. Lights LandingON
2. Camera Transponder ON
3. Action..... Air Cond OFF
Mixture FULL
Lean for Density Alt
AnnunciatorsCHECK

4. Call Tower GET TAKEOFF CLNC

5. Checklist Complete - Ready to Fly

BEFORE TAKEOFF

SHORT CHECKLIST

[Read-Do]

External

1. Pitot Cover REMOVED
2. Engine Cowl Plugs..... REMOVED
3. Chocks..... REMOVED
4. ATIS DEPARTURE INFO

Start / Taxi

1. Engine..... START
2. Enroute Chart OPEN
3. Dest Approach Plates PULLED
4. Clearance Delivery ENR CLEARANCE
5. Ground..... TAXI INSTRUCTIONS
6. Taxi to Runup Area

Runup

1. MagsCHECK

Avionics

1. Autopilot SET DEP ALT, ARM,
VS, +700 fpm
2. COM 1DEP FREQ
3. GPS Flight PlanLOADED
4. Transponder..... CODE SET

Instruments

1. Engine InstrumentsCHECK
2. Flight InstrumentsCHECK and SET
3. HSI.....CRS = INITIAL ENR HDG
BUG = DEP HDG

Controls

1. Fuel SELECT FULLER TANK
2. Pitot Heat AS REQ'D
3. Flight ControlsFREE
4. Trim SET
5. Seat Belts and Shoulder Harness FASTENED
6. Doors and Windows SECURE

Pre Takeoff

1. Lights, Camera, Action (See Checklist)
2. Tower TAKEOFF CLEARANCE

SHORT CHECKLIST

TAKEOFF

1. Power..... SET FULL POWER
2. Fuel Flow SET FOR DENSITY ALT
3. Engine Instruments..... CHECK
4. Rotate AT RECOMMENDED AIRSPEED
5. Pitch..... ESTABLISH FOR INITIAL CLIMB
6. Landing Gear.....RETRACT AFTER
POSITIVE CLIMB VERIFIED
7. Airspeed..... DESIRD CLIMB SPEED
8. Flaps (If Extended For Takeoff)..... RETRACT

MAXIMUM PERFORMANCE CLIMB

1. Power..... FULL THROTTLE, 2,700 RPM
2. Aux Fuel Pump OFF, LOW IF REQ'D
3. Mixture LEAN PER ALTITUDE
4. Airspeed..... 100 KIAS
5. Engine Temperatures..... MONITOR
6. Cowl Flaps AS REQ'D

TAKEOFF - CLIMB

CRUISE CLIMB

At 1,000 ft AGL

1. Propeller 2,500 RPM
2. Throttle..... FULL OPEN
3. Mixture LEAN PER ALTITUDE
4. Airspeed..... 115-120 KIAS
5. Autopilot.....**ENGAGE: SEL HDG, AP**
6. Engine Temperatures..... MONITOR
7. Cowl Flaps AS REQ'D
8. Fuel Flow MONITOR
9. Aux Fuel Pump OFF, LOW IF REQ'D
10. Mixture LEAN MANUALLY PER POH IF
LOW BOOST USED

LEVEL-OFF AND CRUISE

1. Cowl Flaps CLOSE
2. Airspeed..... ACCELERATE TO CRUISE SPEED
3. Power..... SET
4. Aux Fuel Pump AS REQ'D
5. Lights AS REQ'D
6. Fuel.....NOTE TIME UNTIL SWITCHING TANKS
7. Mixture LEAN USING EGT

DESCENT

1. Altimeter..... SET
2. Cowl Flaps CLOSED
3. Power..... REDUCE AS REQ'D
to maintain below desired max KIAS
RPM first to 2000, then Throttle
4. Mixture ENRICH AS REQ'D
only enough for smooth operation
5. Engine Temperatures..... MONITOR
6. Flaps and Landing Gear AS REQ'D

CRUISE - DESCENT

APPROACH

1. Landing Light ON
2. Fuel Selector Valve SEL FULLER TANK
3. Power 17", 2300 RPM
4. Mixture NO CHANGE
5. Flaps APPROACH
6. Airspeed 110 KIAS
7. Trim SET
8. Seat Belts and Shoulder Harnesses FASTEN
9. Seat backs POSITION FOR LANDING
10. Writing Desk STOWED
11. Avionics CONFIRM SET FOR APPROACH

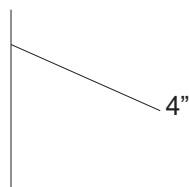
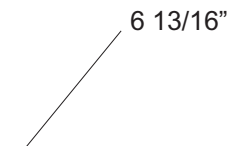
BEFORE LANDING

1. Landing Gear DOWN; VERIFY 3 GREEN LIGHTS
2. Flaps FULL
3. Airspeed 90 KIAS
4. Propeller NO CHANGE
5. Mixture NO CHANGE
6. Yaw Damp OFF

BALKED LANDING / MISSED APPROACH

1. Power MAXIMUM
2. Pitch EST CLIMB ATTITUDE 10° Up
3. Positive Climb Rate ESTABLISH
4. Flaps UP
5. Landing Gear UP
6. Cowl Flaps OPEN

APPROACH - BEFORE/BALKED LANDING



AFTER LANDING and CLEAR OF RUNWAY

1. Flaps UP
2. Cowl Flaps OPEN
3. Trim SET FOR TAKEOFF
4. Landing Light OFF
5. Transponder STANDBY
6. Mixture GROUND LEAN

SHUTDOWN

1. Parking Brake **NOT SET**
2. Electrical Equip (Except Rotating Beacon) OFF
3. Avionics OFF
4. Throttle CLOSE
5. Mixture IDLE CUTOFF
6. Magneto/Start Switch **OFF**
7. Battery and Alternator Switches **OFF**
8. Control Locks INSTALL
9. Wheel Chocks and Tie Downs INSTALL
10. Parking Brake **RELEASE**
11. Pitot Cover INSTALL
12. Engine Cowl Plugs INSTALL
13. Fuselage Cover INSTALL

AFTER LANDING - SHUTDOWN