

N810SA Checklist

(10-26-23)

*Check Fuel Quantity

Preflight Cabin

- | | |
|----------------------------|-----------------|
| 1. Windscreen | Clean |
| 2. Pitot Tube Cover | Remove |
| 3. AROW(+Supplements) | Check |
| 4. Parking Brake | Off if Chocked |
| 5. Control Wheel Lock | Remove |
| 6. Fuel Selector Valve | Both |
| 7. Fuel Shutoff Valve | On (Full In) |
| 8. Elevator Trim | SET for Takeoff |
| 9. Alternate Static Source | Off |
| 10. Ignition Switch | Off |
| 11. Avionics Master Switch | Off |
| 12. EFIS Switch | Off |
| 13. Master Switch | On |
| 14. Fuel Quantity | Check |
| 15. Avionics Master Switch | On |
| 16. Avionics Cooling Fan | Check/Off |
| 17. Annunciator Switch | Test/Release |
| 18. Flaps | Extend |
| 19. Pitot Heat, Lights | On/Check/Off |
| 20. Master Switch | Off |

Preflight Empennage

- | | |
|----------------------------|------------------------------|
| 1. Autopilot Static Source | Check for Blockage |
| 2. Aspen OAT | Check for Blockage |
| 3. Tail Tie-Down | Disconnect |
| 4. Control Surfaces | Check Freedom and Security |
| 5. Trim Tab | Check Security |
| 6. Antennas | Check Security and Condition |

Preflight Right Wing

- | | |
|--------------------------|----------------|
| 1. Flap | Check |
| 2. Aileron | Check |
| 3. Wing Tie Down | Disconnect |
| 4. Main Wheel Tire/Brake | Check |
| 5. Fuel Quantity | Check Visually |
| 6. Fuel Drain Valves (5) | Drain/Check |
| 7. Fuel Filler Cap | Secure |

Preflight Nose

- | | |
|-------------------------------------|----------------------------------|
| 1. Fuel Strainer/Reservoir/Selector | (3)Drain/Check |
| 2. Engine Oil Dipstick | Check Level and Secure |
| | *5 qt min |
| | *Fill to 6+ for extended flights |
| | *DO NOT OVERTIGHTEN |
| 3. Engine Cooling Air Inlets | Clear |
| 4. Propeller & Spinner | Check |
| 5. Alternator Belt | Check |
| 6. Air Filter | Check |
| 7. Nose Wheel Strut/Tire | Check |
| 8. Static Source Opening | Check |

Preflight Left Wing

- | | |
|---------------------------|--------------------|
| 1. Pitot Tube/Drain Hole | Check for Blockage |
| 2. Fuel Tank Vent | Check for Blockage |
| 3. Stall Warning Opening | Check for Blockage |
| 4. Wing Tie Down | Disconnect |
| 5. Fuel Quantity | Check Visually |
| 6. Fuel Drain Valves (5) | Drain/Check |
| 7. Fuel Filler Cap | Secure |
| 8. Aileron | Check |
| 9. Flap | Check |
| 10. Main Wheel Tire/Brake | Check |
| 11. Baggage Door | Secure |

Before Starting Engine

- | | |
|-------------------------|--------------------|
| 1. Preflight Inspection | Complete |
| 2. Passenger Brief | Complete |
| | S- Seats/Seatbelts |
| | A- Airvents |
| | F- Fuel |
| | E- Emergency |
| | T- Traffic |
| | Y- Your Questions |
| 3. Seats/Seatbelts | Adjust and Lock |
| 4. Brakes | Test & Set |
| 5. Circuit Breakers | Check In |
| 6. Lights | Off Except Beacon |
| 7. Autopilot | Off |

Caution

The Avionics Master switch and EFIS switch must be off during engine start to prevent possible damage to avionics.

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|---------------------------------|--------------|
| 8. Avionics Master, EFIS Switch | OFF |
| 9. Fuel Selector Valve | Both |
| 10. Fuel Shutoff Valve | On (Full In) |

Starting Engine

NOTE

If engine is warm, omit priming

PRIMING PROCEDURE

NOTE: MAX PRIME 1-2 SECONDS

- | | |
|---------------------|---|
| 1. Throttle Control | Open ¼" |
| 2. Mixture Control | Idle Cut Off |
| 3. Master Switch | On |
| 4. Fuel Pump | On |
| 5. Mixture | Full to obtain 3-5 GPH fuel flow, then idle Cut off |
| 6. Fuel Pump | Off |
- #### STARTING ENGINE
- | | |
|---------------------|--|
| 7. Master Switch | On |
| 8. Propeller Area | Clear |
| 10. Throttle | Open ⅛" |
| 11. Ignition Switch | Start |
| 12. Mixture | Full Lean until Engine Fires, then smoothly to Full Rich |

NOTE:

If the engine floods, Mixture idle cut off, open throttle ½ to full, and crank engine. When the engine fires, advance mixture to full rich & retard throttle promptly.

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|----------------------------|--------------|
| 13. Oil Pressure | Check |
| 14. Throttle | 1000 RPM |
| 15. Mixture | Lean 1" |
| 16. Throttle | 800-1000 RPM |
| 17. Nav Lights | On at Night |
| 18. Avionics Master Switch | On |
| 19. EFIS Switch | On |
| 20. Flaps | Retract |

Before Taxi

- | | |
|-------------------------|----------------------|
| 1. Cabin Heat/Air | As Needed |
| 2. Radios/Nav aids/GPS | Checked/Set |
| 3. ATIS | Set BARO/ALT/HDG Bug |
| 4. Autopilot, Elec trim | Check/Off |
| 5. Transponder | Verify ALT/SQK |
| | No Annunciations |

Taxi

- | | |
|--------------------------------------|--------------------------|
| 1. Brakes | Release and Test |
| 2. Throttle | Adjust for Min Brake Use |
| 3. Check Required Flight Instruments | |

NOTE:

This checklist is a guide to coordinate Pilot Operating Handbook and STC data applicable to this particular aircraft only. The applicable Pilot Operating Handbook and STC installations remain the official documentation for this aircraft. The pilot in command is responsible for complying with all items in the Pilot Operating Handbook and applicable STCs

Before Takeoff - Run-Up

1. Parking Brake Set
2. Seats/Seatbelts Secure
3. Seat Backs Most Upright Position
4. Cabin Doors Closed and Locked
5. Flight Controls Free & Correct
6. Flight Instruments Check & Set
7. Fuel Quantity Check
8. Mixture Richen +1/2"
9. Throttle 1800 RPM
 1. Mag Check L-R-L-Both (150max)
 2. Engine Instruments/CHT Check
 3. Amps/Volts Check Positive/28V
10. Annunciators Check
11. Throttle Check Idle
12. Throttle 800-1000 RPM
13. Mixture Lean +1/2"
14. Throttle Friction Lock Adjust
15. GPS/ASPEN CDI Select Nav Source
16. Autopilot Off
17. Transponder Verify ALT/SQK
18. Parking Brake Release

Before Takeoff- Hold Short Line

1. Frequency TWR/CTAF
2. Elevator Trim Set for Takeoff
3. Flaps Set for Takeoff (0-10°)
4. Land/Taxi/Bcn/Strobe On
Nav Lights Night Only
5. Takeoff Brief
Runway/Takeoff Type/Speeds/HDG/ALT
Lose Engine...
Runway IDLE, EXIT RWY
Airborne Rwy Remaining LAND
Below 1000 AGL PUSH 70kts,
Land Straight +/-30°
Above 1000 AGL PUSH 70kts,
Consider Return to Airport
6. Mixture Best Power

Normal Takeoff

1. Flaps 0-10°
2. Runway Heading Verify
3. Throttle Full Open
4. Vr 55 KIAS
5. Vy 74 KIAS

SHORT FIELD

1. FLAPS 10°
2. Use all Available Runway
3. Hold Brakes/Full Power/Check RPM
4. Release Brakes
5. Vr 51 KIAS
6. Vx 56 KIAS
7. Obstacle Cleared 74 KIAS/Flaps Up

SOFT FIELD

1. FLAPS 10°
2. Full Aft/No Brakes
3. Remain in Ground Effect
4. Begin Climb Vx 62 KIAS
5. Obstacle Cleared 74 KIAS/Flaps Up

Enroute Climb

1. Airspeed 75 - 85 KIAS
2. Throttle Full Open
3. Mixture Full Rich below 3000'
4. Engine Instruments/CHT Check
5. Transponder Verify ALT/SQK

Cruise

1. Power As Needed
2. Elevator Trim Adjust
3. Mixture Lean as Needed
4. Lights As Needed

Before Descent

1. Weather (ATIS) Obtain
2. Altimeters Set
3. Approach Brief
4. VOR/GPS Setup As Needed
5. ASPEN and GPS CDI Select
6. Fuel Selector Valve Both
7. Mixture Adjust

Before Landing

1. Seat Backs Most Upright Position
1. Seats & Seat Belts Secure
2. Fuel Selector Valve Both
3. Mixture Control Richen
4. Landing & Taxi Lights On
5. Autopilot Off

Normal Landing

1. Airspeed 65 - 75 KIAS
2. Wing Flaps As Needed
0° - 10° below 110 KIAS
20° -30° below 85 KIAS

SHORT FIELD

1. Flaps 30°
2. Airspeed 62 KIAS
3. Aerodynamic Braking Flaps UP
Yoke Aft
Apply Brakes

SOFT FIELD

1. Flaps 20-30°
2. Hold Nosewheel Off
3. MINIMUM to NO Braking

Balked Landing

1. Throttle Full Open
2. Wing Flaps Retract to 20°
3. Climb Speed 60 KIAS
4. Wing Flaps Retract Slowly

After Landing (Clear of Runway)

1. Aircraft Clear of Runway
Full Stop
2. Throttle 1000 RPM
3. Mixture Lean +1"
4. Throttle Adjust for Min Brake Use
5. Wing Flaps Up
6. Lights As Needed
7. Transponder ALT/1200
8. Pitot Heat Off
9. Taxi Clearance Brief

Securing Aircraft

1. Parking Brake As Needed
2. Electric Equipment, Autopilot Off
3. EFIS Switch Off
4. Avionics Master Switch Off
5. Throttle Idle
6. Magnetos Check for Ground
7. Mixture Idle Cut Off
8. Magnetos Off, Remove Key
9. Master Switch Off
10. Control Wheel Lock Install
11. Fuel Selector Left or Right
12. Sun Shields Install
13. Aircraft Locked if away from Home
14. Flight Plan Closed

V Speeds and Specs

- X-Wind (Max Demo'd) 15 Knots
- Best Glide Speed 68 KIAS (flaps up)
- Short Field Takeoff (flaps 10) 56KIAS
- Vx (Sea Level) 62 KIAS
- Vy (Sea Level) 74 KIAS
- Vso Stall w/ Flaps 40 KIAS
- Vs1 Stall w/o Flaps 48 KIAS
- Va (2550lbs) 105 KIAS
- Va (2200 Lbs) 98 KIAS
- Va(1900 Lbs) 90 KIAS
- Vno Max Structural Cruise 129 KIAS
- Vne Never Exceed 163 KIAS

Aircraft Information

- Gross Takeoff Weight 2550 lbs
- Engine Lycoming IO-360-L2A
- Max Power 180 BHP
- Max Engine Speed 2700 RPM
- Fuel Type 100LL (Blue)
- Fuel Capacity 53 Gal Usable
- Oil Capacity 8 Qts (Minimum 5)
- Electrical 24 - 28 Volt / 60 Amp
- Tire Pressure Nose-45/ Main-42 PSI
- BEW 1696 Arm 41.2 Moment 69834

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FLIGHT TRAINING & RENTALS