

Preflight Cabin

| | |
|--------------------------------|--------------------|
| 1. Pitot Tube Cover | Remove |
| 2. AROW (+Supplements) | Check |
| 3. Parking Brake | Set if Not Chocked |
| 4. Control Wheel Lock | Remove |
| 5. Fuel Selector Valve | Both |
| 6. Fuel Shutoff Valve | On (Full In) |
| 7. Elevator Trim | SET for Takeoff |
| 8. Alternate Static Source | Off |
| 9. Ignition Switch | Off |
| 10. Avionics Master Switch | Off |
| 11. EFIS Switch | Off |
| 12. Master Switch | On |
| 13. Fuel Quantity/Annunciators | Check |
| 14. Avionics Master Switch | On |
| 15. Avionics Cooling Fan | Check/Off |
| 16. Annunciator Switch | Test/Release |
| 17. Flaps | Extend |
| 18. Pitot Heat, Lights | On/Check/Off |
| 19. Master Switch | Off |
| 20. Baggage Door | Secure |

Preflight Tail/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. Aileron | Check |
| 2. Flap | 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 and Tire | Check |
| 8. Static Source Opening | Check |

Preflight Left Wing

| | |
|--------------------------|----------------|
| 1. Aileron | Check |
| 2. Flap | 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 |
| 8. Fuel Tank Vent | Check |
| 9. Stall Warning Opening | Check |

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. Electrical Equipment, Autopilot | Off |

Caution

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

| | |
|---------------------------------|--------------|
| 7. Avionics Master, EFIS Switch | OFF |
| 8. Fuel Selector Valve | Both |
| 9. 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 1/4 Inch |
| 2. Mixture Control | Idle Cut Off |
| 3. Master Switch | On |
| 4. Flashing Beacon | On |
| 5. Fuel Pump | On |
| 6. Mixture | Full to obtain 3-5 GPH fuel flow, then Idle Cut Off |
| 7. Fuel Pump | Off |

STARTING ENGINE

| | |
|---------------------|--|
| 8. Master Switch | On |
| 9. Propeller Area | Clear |
| 10. Throttle | Open 1/8" |
| 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 1/2 to full, and crank engine. When the engine fires, advance mixture to full rich & retard throttle promptly.

| | |
|----------------------------|----------------------|
| 13. Oil Pressure | Check |
| 14. Throttle | 1000 RPM |
| 15. Mixture | Lean for Max RPM |
| 16. Throttle | 800-1000 RPM |
| 17. Nav Lights | OFF except for Night |
| 18. Avionics Master Switch | On |
| 19. EFIS Switch | On |
| 20. Radios | On |
| 21. Flaps | Retract |

Before Taxi

| | |
|---------------------------|------------------------------------|
| 1. Heat / Vents / Defrost | 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 Flight Instruments | |
| 1. ASPEN PFD/STBY | |

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

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BLACK HOUND AVIATION

FLIGHT TRAINING & RENTALS

Before Takeoff - Run-Up

| | |
|------------------------------|-----------------------|
| 1. Parking Brake | Set |
| 2. Seats | Secure |
| 3. Seat Backs | Most Upright Position |
| 4. Seat Belts | Secure |
| 5. Cabin Doors | Closed and Locked |
| 6. Flight Controls | Free & Correct |
| 7. Flight Instruments | Check & Set |
| 8. Fuel Quantity | Check |
| 9. Mixture | Full Rich |
| 10. Fuel Selector Valve | Both |
| 11. Throttle | 1800 RPM |
| 1. Mixture: Lean for Max RPM | |
| 2. Mag Check (150/50 max) | |
| 3. Engine Instruments | Check |
| 4. Amps/Volts | Check |
| 12. Annunciators | Check |
| 13. Throttle | Check Idle |
| 14. Throttle | 800-1000 RPM |
| 15. Mixture | Lean as Needed |
| 16. Throttle Friction Lock | Adjust |
| 17. GPS/ASPEN CDI | Select Nav Source |
| 18. Autopilot | Off |
| 19. Elevator Trim | Set for Takeoff |
| 20. Land/Taxi/Bcn/Strobe | On |
| Nav Lights Night Only | |
| 21. Transponder | Verify ALT/SQK |
| No Annunciations | |
| 22. Parking Brake | Release |

Before Takeoff- Hold Short Line

| | |
|------------------------------------|-------------------------|
| 1. Frequency | TWR/CTAF |
| 2. Flaps | Set for Takeoff (0-10°) |
| 3. 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 | |
| 4. 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 | 73 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 | 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 & Lock |
| 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 for Max RPM |
| 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 1686 Arm 41.1 Moment 69331 | |