# Baron 58 Mini POH - Checklist & Quick Reference

X Plane 12 Pnly – Not for Real World Applications



### **Preflight Inspection**

- Aircraft documents onboard & valid
- Control locks REMOVE
- Master switch ON
- Fuel quantity CHECK
- Flaps EXTEND
- Lights CHECK
- Pitot heat CHECK
- Master switch OFF
- Fuel SUMP all drains
- Oil level CHECK (min 5 qt per engine)
- General condition WALKAROUND

#### **Engine Start**

- · Brakes HOLD
- Carb heat OFF
- Mixture FULL RICH
- Throttle OPEN 1/4"
- Master switch ON
- Beacon ON
- Fuel pump ON, then OFF
- Primer AS REQUIRED
- Ignition START (release at start)
- Oil pressure CHECK (within 30 sec)
- Avionics ON after start
- Radios SET

# **✓** Taxi

- Brakes TEST
- Turn & slip CHECK
- Heading CHECK
- Attitude CHECK

## **☑** Run-Up / Pre-Takeoff

- Parking brake SET
- Mixture FULL RICH
- Throttle 1700 RPM
- Magnetos CHECK (≤ 125 RPM drop / 50 RPM difference)
- Carb heat CHECK (RPM drop)
- Engine gauges GREEN
- Suction CHECK
- Ammeter/Voltmeter CHECK
- Throttle IDLE, then 1000 RPM
- Flight instruments SET
- Trim SET
- Flaps SET
- Controls FREE & CORRECT

### **✓** Takeoff

- Doors/windows SECURE
- Mixture FULL RICH
- Carb heat OFF
- Transponder ALT
- Landing light ON
- Final CLEAR
- Rotate 85 KIAS

#### **✓** Climb

- Flaps UP
- Climb speed 105 KIAS
- Engine MONITOR
- Landing light OFF above 1000' AGL

# **✓** Cruise

- Power SET (2500 RPM / 24" MP)
- Mixture LEAN as required
- Engine instruments CHECK
- Heading/altitude MONITOR

## **✓** Descent

- ATIS / Weather OBTAIN
- Altimeter SET
- Mixture ENRICHEN
- Power REDUCE
- Carb heat AS REQUIRED

### **☑** Circuit / Landing

- Fuel BOTH
- Mixture FULL RICH
- Carb heat ON
- Flaps SET (15° for approach, 30° for landing)
- Final approach 95 KIAS
- Runway CONFIRM
- Touchdown MAINS FIRST, NOSEWHEEL GENTLY

## Post-Flight / Shutdown

- Avionics OFF
- Throttle IDLE
- Mixture CUTOFF
- Ignition OFF, KEY REMOVE
- Master switch OFF
- Lights OFF
- Control lock INSTALL
- Aircraft SECURE & TIEDOWN

# **Parick Reference**

### **♥** V-Speeds (Baron 58)

#### Speed Value (KIAS) Description

Vr	85	Rotation speed
Vx	92	Best angle climb
Vy	105	Best rate climb
Vfe	152	Max flap extension
Vno	195	Max structural cruise
Vne	223	Never exceed
Vs	74	Stall clean
Vso	65	Stall landing config

Vso 65 Stall landing config

## **Power Settings & Mixture Guidelines**

#### **Takeoff**

• **Throttle**: Full throttle

• **Prop RPM**: 2700 RPM

• **Mixture**: Full rich (adjust for field elevation)

#### Climb

• Throttle: 25" MP

• **Prop RPM**: 2500 RPM

• **Mixture**: Lean to peak EGT or 25°F rich of peak

• Climb Speed: 105 KIAS

#### Cruise

• Throttle: 24" MP

• **Prop RPM**: 2300 RPM

• **Mixture**: Lean to 50°F rich of peak EGT

• Cruise Speed: 170-180 KIAS at 6000 ft, 150-160 KIAS at 9000 ft

#### **Descent**

• Throttle: Reduce to maintain desired descent rate

• Mixture: Enrich as required

• **Descent Speed**: 170 KIAS at 16000-13000 ft, 160 KIAS below 13000 ft

#### Landing

• Throttle: Reduce to idle

• **Prop RPM**: 2500 RPM

• Mixture: Full rich

• Flaps: 15° for approach, 30° for landing

• Landing Speed: 95 KIAS

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