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| **Cessna 182Q N121M v1.6 8/28/2024** | |
| **TAKEOFF**  Normal: Rotate 50 Kts **Vy 78 Kts**  (72 kts @ 10,000’)  Short/Soft: Flaps 20° **Vx 50 Kts** (58 kts @ 10,000’) | |
| **CRUISE CLIMB 85 – 95 Kts**  **BEST GLIDE 70 Kts (flaps up)** | |
| **>1000’ AGL** Oil Pres/Temp • Ammeter  • MP **15”- 23”** • Prop **2100 -2400 RPM** | |
| **CRUISE**  • 75% power or less • LEAN to **peak EGT**, then ENRICH 50˚F rich of peak for recommended lean. Use G3X Engine Lean Assist  **OPERATING LEAN OF PEAK IS NOT APROVED**  • Cowl Flaps - As Required  • Routinely Check Gauges:• Oil Press/Temp • Ammeter  • Landing Light **On for Safety** | |
| **LANDING** • Landing Light **ON** • Auto-Pilot **OFF** • **GUMPS**  • Carb Heat **ON** • Prop **FWD**  • Cowl Flaps **CLOSED** • Fuel **BOTH** • Mixture **ENRICH**  • Approach at **60-70 Kts** | |
| **GO AROUND**  • Full Throttle • Pitch up • Carb Heat **OFF** • Flaps retract to **20°**  • Climb at ***55 kts*** & above ***70 kts*** retract flaps • Cowl Flaps **OPEN** | |
| **AFTER LANDING**  Carb Heat **OFF** • Flaps **UP**  Cowl Flaps **OPEN** • Mixture **LEAN** for taxi | |
| **SHUTDOWN** Avionics/Lights **OFF** • G3X Engine & Total Times **RECORDED**  • Mixture • Mags • Master **OFF**• Leave Beacon **On**  Flight Plan **Closed** • Control Lock **Installed** Pitot Tube Covers - **Installed** | |
| **POSTFLIGHT**  Windows & **All** Leading Edges **CLEANED**• Wheel Chocks **SET** • Seat Belts **SECURE** • Interior **CLEANED**• Airplane **LOCKED** • **LOG OUT** Flight Log System Flight Plan **CLOSED**• Hangar **SECURE** • Lights **OFF**  • Doors **LOCKED** | |
| *Kts*  **Vso 38**  **Vs1 53**  **Vfe 95**  **Va 2950 111**  **Va 2500 102**  **Va 2050 93**  **Vno 143**  **Vne 179** | Recommended Pattern Speeds/ Approx Pwr Settings  Downwind: 85 - 90 Kts / 16“ MP  Abeam: 75 - 80 Kts / 13“ MP  Base: 70 - 75 Kts / 13“ MP  Final: 55 - 65 Kts / 13“ MP  (Full Flaps – No Flaps) |

Emergency: Com 121.5 / Squawk 7700

Loss Com. Squawk 7600

KMAN ASOS:118.325 KEUL: COM 123.0 /ASOS 135.07

KBOI ATIS:123.9 Big Sky App/Dep: 119.6 unless directed to 126.9

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| **Cessna 182Q N121M v1.6 8/28/2024** | |
| CHECKED OUT - FLIGHT LOG SYSTEMPREFLIGHT Pitot/AOA Tube Covers-REMOVED  Gust Lock - REMOVED  Avionics Master–OFF  AOA Pitot Heat/Pitot Heat - OFF  Master – ON (Right side only)  G3X – Check Engine(tach) Total (Hobbs)  Flaps – Ck for Smooth Operation  Exterior/Interior Lights - CHECK  Stall Horn - CHECK  Master – OFF  Check Rear seats and seatbelts are properly installed.  Baggage Door – LOCKED  Tires/Brakes – Press/Leaks  (Main 25 psi - Nose 25 psi)  VG – CHECK  Careful with VG’s when Fueling.  Not Airworthy if more than 5 VG’s are missing – Ground Plane  Oil level: 7 MIN / 8 MAX Qts.  Oil Filler Cap – Secure  Nose strut, Cowl Flaps-Inspect  Prop & Spinner-Inspect  Static Ports-Clear  Check Fuel level/Caps/Drain  Engine Fuel Strainer-Drain  Final Walk/Look Around/Tow Bar START Passenger Briefing  Seats – LOCKED  Seat Belts – FASTENED  Fuel – ON BOTH  Cowl Flaps – OPEN  Elevator / Rudder Trim-Set  Circuit Breakers – In  Master – ON  Wait until **G3X** is on and  MFD/Oil Pressure is visible.  Set Remaining Fuel Qty to match dipstick. Reset Set Fuel Used = 0 | AutoPilot Preflight (if intending to use AutoPilot or Electric Trim) See G3x manual pg 295 and FMS-Limitations  Mixture – RICH  Carb Heat – COLD  Prime – As Required (max 3)  Throttle – OPEN ~ ½ Inch  Brakes – Set/Held  Beacon – ON  Yell - Clear Prop – Look around Engage Starter (max 20 sec crank if no start)AFTER START Throttle – 1000 RPM  Oil Pressure– in green < 30 seconds  Flaps – UP  Mixture – LEAN FOR TAXI  Avionics Master – ON  Taxi/Landing Lights - ON  Transponder – ALT RUNUP Doors & Windows – LATCHED  Controls – FREE & CORRECT  Flaps – UP  Trim – Elevator & Rudder TAKEOFF  Throttle – 1700 RPM  Mixture – FULL RICH (Lean for best power above 3,000’ DA) Mags (drop< 150, difference ea <50)  Prop – Cycle 3 X  Carb Heat – TEST  Throttle to Idle – Does not quit  Throttle – 1000 RPM  Confirm Voltage 12.5-14 Volts  Hi Voltage Light – NOT LIT  Check Alt Amps - Charging  Instruments – CHECK/SET  Seat Belts – SECURE  Headset – ON  Check Intercom/Com volumes/operation  COM – First Freq. 122.7 KMAN  KMAN ASOS:118.325  AutoPilot – OFF  G3X/Avionics – Set Up |
| **BEFORE TAKEOFF - Clearing** circle for Pattern Traffic  • What is your **ABORT** Plan?  Flaps **UP** or 20° • Carb Heat **OFF** • Transponder **ALT** •  Lights/Strobes **ON** • Prop **FWD** • Cowl Flaps **OPEN** • Headset **ON** | |