PRE-FLIGHT INSPECTION

1. Operating Manual ..... ACCESSIBLE TO PILOT
2. Parking Brake ..... SET
3. MAGNETOS Switch ..... OFF
4. AVIONICS Switch (BUS 1 ans BUS 2) ..... OFF
5. MASTER Switch (ALT and BAT) ..... ON
6. PFD (Only SOLO PRO G1) ..... CHECK (verify PFD is ON)
7. FUEL QTY (L and R) ..... CHECK
8. LOW FUEL L and R Annunciators ..... Verify that are not shown
9. OIL PRESSURE Annunciator ..... Verify that is shown
10. LOW VACUUM Annunciator ..... Verify that is shown
11. FUEL SELECTOR Valve ..... BOTH
12. FLAPS ..... EXTEND
13. PITOT HEAT ..... ON
14. PITOT HEAT ..... OFF
15. MASTER Switch (ALT and BAT) ..... OFF
16. Elevator Trim ..... TAKEOFF position
17. ALT STATIC AIR Valve ..... OFF (push full in)

BEFORE STARTING ENGINE

1. Pre-flight Inspection ..... COMPLETE
2. Seat ..... ADJUST
3. Electrical equipment ..... OFF
4. AVIONICS Switch (BUS 1 and BUS 2) ..... OFF
5. Fuel Selector Valve ..... BOTH

STARTING ENGINE

1. THROTTLE Control ..... OPEN 1/4 INCH
2. MIXTURE Control ..... IDLE CUTOFF (pull full out)
3. STBY BATT Switch: TEST - Hold for 20 seconds and verify that green TEST lamp does not go off. ARM (Only SOLO PRO G1) - Verify PFD comes on.
4. BUS E Volts ..... CHECK (Verify 24 VOLTS minimum shown)
5. M BUS Volts ..... CHECK (Verify 1.5 VOLTS or less shown)
6. MASTER Switch (ALT and BAT) ..... ON
7. BEACON Lights Switch ..... ON

NOTE: If engine is warm, omit priming procedure steps 10, 11 and 12 below

8. FUEL PUMP Switch ..... ON
9. MIXTURE Control ..... SET to FULL RICH (full forward) until stable fuel flow is indicated (approximately 3 to 5 seconds), then set to IDLE CUTOFF (full aft) position
10. FUEL PUMP Switch ..... OFF
11. MAGNETOS Switch ..... START (release when engine starts)
12. MIXTURE Control .... ADVANCE SMOOTHLY TO RICH (when engine starts)

THIS CHECKLIST IS INTENDED FOR SIMULATION PURPOSES ONLY.

NOTE: If the engine is primed too much (flooded), place the mixture control in the IDLE CUTOFF position, open the throttle control 1/2 to full, and engage the starter motor (START). When the engine starts, advance the mixture control to the FULL RICH position and retard the throttle control promptly.

13. OIL PRESSURE .... CHECK (verify that oil pressure increases into the GREEN BAND range in 30 to 60 seconds)
14. AMPS (M BATT AND BATT S) CHECK (verify charge shown (positive))
15. NAV Light Switch ..... ON as required
16. AVIONICS Master Switch (BUS 1 and BUS 2) ..... ON
17. Press Softkey 12 (Only SOLO PRO G1) ..... Verify MFD is ON

BEFORE TAKEOFF

1. Parking Brake ..... SET
2. Seat ..... CHECK
3. Flight Instruments . CHECK (SOLO PRO G1 CHECK no red X's appear in PFD)
4. Barometer ..... SET
5. Standby Altimeter ..... SET
6. ALT SEL ..... SET
7. FUEL Quantity ..... CHECK (verify level is correct)

   NOTE: Flight is not recommended when both fuel quantity indicators are in the yellow range.
8. MIXTURE Control ..... RICH position
9. FUEL SELECTOR Valve ..... RECHECK BOTH
10. Throttle ..... 1800 RPM
    a. Magnetos ..... CHECK (RPM drop should not exceed 150 RPM on either magneto or 50 RPM differential between magnetos)
    b. Vacuum Gage ..... CHECK
    c. Engine Indicators ..... CHECK
    d. Engine Instruments and Ammeter ..... CHECK
11. ANNUNCIATOR PANEL ..... Ensure no annunciator are illuminated
12. THROTTLE Control ..... CHECK IDLE
13. THROTTLE Control ..... 1000 RPM on LESS
14. THROTTLE Control Friction Lock ..... ADJUST
15. STROBE Lights ..... AS DESIRED
16. Autopilot ..... OFF
17. COM and NAV Frequencies ..... SET
18. FMS/GPS Flight Plan (Only SOLO PRO G1) ..... AS DESIRED
19. Elevator Trim ..... SET for TAKEOFF
20. FLAPS ..... 1 STEP DOWN (10°)
21. XPDR ..... SET
22. Parking Brake ..... RELEASE
23. CDI Softkey (Only SOLO PRO G1) ... SELECT NAV 1 / NAV 2 SOURCE

TAKEOFF

NORMAL TAKE OFF

1. Brakes ..... APPLY
2. THROTTLE Control ..... FULL OPEN (push full in)
3. MIXTURE Control . RICH (Above 3000 feet pressure altitude, lean for maximum RPM)
4. Brakes ..... RELEASE
5. ELEVATOR Control ..... LIFT NOSE WHEEL (at 55 KIAS)
6. Climb Airspeed ..... 70 - 80 KIAS
7. FLAPS ..... RETRACT (at safe altitude)

SHORT FIELD TAKE OFF

1. FLAPS ..... 10°
2. Brakes ..... APPLY
3. THROTTLE Control ..... FULL OPEN (push full in)
4. MIXTURE Control . RICH (above 3000 feet pressure altitude, lean for maximum RPM)
5. Brakes ..... RELEASE
6. ELEVATOR Control ..... SLIGHTLY TAIL LOW
7. Climb Speed ..... 56 KIAS (until all obstacles are cleared)
8. FLAPS .... RETRACT SLOWLY (when airspeed is more than 60 KIAS)

ENROUTE CLIMB

1. Airspeed ..... 70 - 85 KIAS
2. THROTTLE Control ..... FULL OPEN (push full in)
3. MIXTURE Control . RICH (above 3000 feet pressure altitude, lean for MAXIMUM RPM)

CRUISE

1. POWER . 2100 - 2700 RPM (no more than 75% power recommended)
2. ELEVATOR Trim ..... ADJUST
3. MIXTURE Control ..... LEAN (for desired performance or economy)

DESCENT

1. POWER ..... AS DESIRED
2. MIXTURE ..... ADJUST (if necessary to make engine run smoothly)
3. ALTIMETER(s) ..... SET
4. CDI Softkey (Only SOLO PRO G1) ..... SELECT NAV SOURCE
5. FUEL SELECTOR Valve ..... BOTH
6. FLAPS . . 0 to 1 STEP below 110 KIAS (0° - 10°), 1 to 3 STEPS below 85 KIAS (10° - 30°)

BEFORE LANDING

1. Seat ..... CHECK
2. FUEL SELECTOR Valve ..... BOTH
3. MIXTURE Control ..... RICH position

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4. LAND and TAXI Light Switches ..... ON
5. Autopilot ..... OFF

LANDING

NORMAL LANDING

1. Airspeed ..... 65 - 75 KIAS (flaps UP)
2. FLAPS ....AS DESIRED (0° - 10° below 110 KIAS, 10° - FULL below 85 KIAS)
3. Airspeed ..... 60 - 70 KIAS (flaps DOWN)
4. Elevator Trim Control ..... ADJUST
5. POWER .....REDUCE to IDLE after clearing obstacle
6. TOUCHDOWN .....MAIN WHEELS FIRST
7. Landing Roll .....LOWER NOSE WHEEL GENTLY
8. Braking .....MINIMUM REQUIRED

SHORT FIELD LANDING

1. Airspeed .....65 - 75 KIAS (Flaps UP)
2. FLAPS ..... FULL DOWN
3. Airspeed ..... 61 KIAS (until flare)
4. Elevator Trim Control ..... ADJUST
5. POWER .....REDUCE to IDLE after clearing obstacle
6. TOUCHDOWN .....MAIN WHEELS FIRST
7. Braking ..... APPLY HEAVILY
8. FLAPS ..... RETRACT

BALKED LANDING

1. THROTTLE Control ..... FULL OPEN (full push in)
2. FLAPS .....RETRACT to 20°
3. Climb Speed .....60 KIAS
4. FLAPS 10° (until obstacles are cleared), RETRACT (after reaching safe altitude and 65 KIAS)

AFTER LANDING

1. FLAPS .....UP

SECURING AIRPLANE

1. PARKING BRAKE .....SET
2. THROTTLE Control ..... IDLE (pull full out)
3. AVIONICS Switch (BUS 1 and BUS 2) ..... OFF
4. MIXTURE Control .....IDLE CUTOFF (pull full out)
5. MAGNETOS Switch ..... OFF
6. MASTER Switch (ALT and BAT) ..... OFF
7. STBY BATT Switch .....OFF
8. FUEL SELECTOR Valve ..... LEFT or RIGHT (to prevent crossfeeding between tanks)