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**BEFORE START**

|  |  |
| --- | --- |
| Exterior Preflight | COMPLETE |
| Passenger Briefing | COMPLETE |
| Seats/Seat Belts | ADJUST/LOCK |
| Circuit Breakers | IN |
| Avionics Master | OFF |
| Flight Controls | FREE & CORRECT |
| Brakes | TEST & SET |

**STARTING ENGINE**

|  |  |
| --- | --- |
| Beacon Light | ON |
| Carburetor Heat | COLD |
| Mixture | RICH |
| Master Switch | ON |
| Nav./Inst. Lights | ON after SUNSET |
| Primer | Pump 2-3 X slowly |
| Throttle | OPEN 1/8 INCH |
| Propeller | CLEAR |
| Ignition Switch | START |
| Throttle | Set 800-1000 RPM |
| Oil Pressure | CHECK |

**AFTER START**

|  |  |
| --- | --- |
| Avionics Master | ON |
| Headsets/Intercom | ON/ADJUST |
| Flaps | RETRACT/UP |
| ATIS/AWOS | OBTAIN |
| Altimeters | SET |
| Flight Instruments | SET |
| Transponder | ALT |

**TAXI**

|  |  |
| --- | --- |
| ATC/CTAF | CALL FOR TAXI |
| Brakes & Steering | RELEASE & CHECK |
| Flight Instruments | CHECK |

**RUNUP/BEFORE TAKEOFF**

|  |  |
| --- | --- |
| Brakes | SET/HOLD |
| Radios/Transponder | CHECK/SET |
| Fuel Selector | BOTH |
| Elevator Trim | SET |
| Mixture | FULL RICH |
| Primer | IN & LOCKED |
| Throttle | 1700 RPM’s |
| Magnetos | CHECK (125 Max Drop, 50 differential) |
| Carburetor Heat | CHECK (for RPM DROP) |
| Engine Inst. | GREEN |
| Ammeter | CHECK |
| Suction Gauge | CHECK |
| Throttle Idle | CHECK then 800-1000 RPM |
| Throttle Friction Lock | ADJUST |
| Flight Inst. | CHECK/SET |
| Flaps | SET (0) |
| Doors & Windows | CLOSED & LATCHED |

**LINEUP / TAKEOFF**

|  |  |
| --- | --- |
| Landing & Strobe Lights | ON |
| Mixture | RICH (or lean >3000’ MSL) |
| Time Off | NOTE |
| VR | 55 KIAS |
| VX | 59 KIAS |
| VY | 73 KIAS |

**AFTER TAKEOFF / CRUISE**

|  |  |
| --- | --- |
| Enroute Climb | 70-85 KIAS |
| Mixture | LEAN above 3000’ |
| Landing Light | AS REQUIRED |
| Engine Inst. | CHECK |

**DESCENT AND ARRIVAL**

|  |  |
| --- | --- |
| Mixture | ENRICH |
| Carburetor Heat | AS REQUIRED |
| Fuel Selector | BOTH |
| Landing Light | ON |
| Seats/Seat Belts | ADJUST/LOCK |
| ATIS/AWOS | OBTAIN |
| Altimeters | SET |
| Heading Indicator | SET |
| Radios/Avionics | CHECK/SET |

**BEFORE LANDING**

|  |  |
| --- | --- |
| Autopilot | OFF |
| Mixture | RICH BELOW 3000’ |
| Flaps | SET |
| V-APP Flaps Up 60-70/Flaps 40 55-65 | |

**AFTER LANDING**

|  |  |
| --- | --- |
| Flaps | UP |
| Carburetor Heat | COLD |
| Strobe Lights | OFF |
| Landing/ Taxi Lights | AS REQUIRED |
| ATC/CTAF | CALL FOR TAXI |

**TAXI BACK FOR TAKEOFF / LINEUP**

|  |  |
| --- | --- |
| Flight Inst. | CHECK/SET |
| Fuel Quantity | ADEQUATE |
| Fuel Selector | BOTH |
| Elevator Trim | SET |
| Doors & Windows | CLOSED & LATCHED |
| Flaps | SET (0) |

**-----------------------------------------------------**

|  |  |
| --- | --- |
| Landing & Strobe Lights | ON |
| Mixture | RICH (or lean >3000’ MSL) |

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**SHUTDOWN / PARKING**

|  |  |
| --- | --- |
| Landing/Taxi Light | OFF |
| Avionics Master & A/P | OFF |
| Mixture | IDLE CUTOFF |
| Ignition | OFF/ KEY OUT |
| Nav./Inst. Lights | ALL OFF |
| Beacon Light | OFF |
| Master Switch | OFF |
| Fuel Selector | LEFT or RIGHT |
| Hobbs & Tach | RECORD |
| Control Lock | INSTALL |
| Pitot Cover | INSTALL |
| Chocks | INSTALL |

**V-speeds**

|  |  |
| --- | --- |
| Vso | 41 KIAS |
| Vs | 47 KIAS |
| Vfe | 85 KIAS |
| **Best Glide** | **Flaps Up 65 KIAS** |
| Approach | Flaps Up 60-70 KIAS |
| Approach | Flaps 40 55-65 KIAS |

**Consult POH for any questions**

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**CABIN PREFLIGHT**

|  |  |
| --- | --- |
| Documents (AROW) | CHECK |
| Control Wheel Lock | REMOVE |
| All Elec. Switches | OFF |
| Master Switch | ON |
| Fuel Quantity Indicators | CHECK |
| Ignition Switch | OFF-KEYS REMOVED |
| Flaps | EXTEND |
| Exterior Lights | CHECK FOR NIGHT |
| Pitot Heat (IFR) | ON-CHECK WARM |
| Ext. Lights/Pitot | OFF |
| Master Switch | OFF |
| Fuel Selector | BOTH |
| Elevator Trim | SET |

**EMPENNAGE**

|  |  |
| --- | --- |
| Tail Tie-Down | DISCONNECT |
| Control Surfaces | CHECK |
| Trim Tab | CHECK |
| Antenna’s | CHECK |

**RIGHT WING TRAILING EDGE**

|  |  |
| --- | --- |
| Flap | CHECK |
| Aileron | CHECK |
| Wing Tip & Lights | CHECK |

**RIGHT WING LEADING EDGE**

|  |  |
| --- | --- |
| Leading Edge | CHECK |
| Wing Tie-Down | DISCONNECT |
| Main Wheel, Tire & Brakes | CHECK |
| Chocks | REMOVE |
| Fuel Sump Quick Drain | SAMPLE |
| Fuel Quantity | CHECK VISUALLY |
| Fuel Filler Cap | SECURE |

**NOSE**

|  |  |
| --- | --- |
| Windshield | CHECK/CLEAN |
| Engine Oil(5 qts. Min- 8 qts. Max) | CHECK |
| Fuel Sump Quick Drain | Pull- 4 seconds  INSIDE OIL DOOR |
| Engine Cowling | SECURE |
| Nose Gear Strut | CHECK |
| Nose Wheel & Tire | CHECK |
| Chocks | REMOVE |
| Air Filter | CLEAR |
| Propeller & Spinner | CHECK |
| Air Intakes | CHECK |
| Alternator Belt | CHECK |
| Check All Tires | ROLL FWD & BACK |
| Landing/Taxi Lights | CHECK |
| Static Source-Left side of fuselage | CHECK |

**LEFT WING LEADING EDGE**

|  |  |
| --- | --- |
| Fuel Sump Quick Drains | SAMPLE |
| Fuel Quantity | CHECK VISUALLY |
| Fuel Cap | SECURE |
| Pitot Tube & Cover | CHECK & REMOVE |
| Stall Warning Opening | CHECK |
| Fuel Tank Vent | CHECK |
| Wing Tie-Down | REMOVE |
| Leading Edge | CHECK |

**LEFT WING TRAILING EDGE**

|  |  |
| --- | --- |
| Wing Tip & Lights | CHECK |
| Aileron | CHECK |
| Flap | CHECK |
| Main Wheel, Tire & Brakes | CHECK |

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**ENGINE FAILURE INFLIGHT**

|  |  |
| --- | --- |
| AIRSPEED/TRIM | 65 KIAS/SET |
| Landing Site | SELECT |
| Carburetor Heat | ON |
| Fuel Selector | CHECK BOTH |
| Mixture | RICH |
| Ignition Switch | CHECK L, R, & BOTH, or START |
| Primer | IN & LOCKED |
| If engine does not restart, continue with Emergency Landing Without Power Checklist | |

**EMERGENCY LANDING WITHOUT POWER**

|  |  |
| --- | --- |
| Seats/Seat Belts | ADJUST/LOCK |
| Airspeed | 65 KIAS (Flaps UP) 60KIAS (Flaps Down |
| Mixture | IDLE CUTOFF |
| Fuel Selector Valve | OFF |
| Ignition Switch | OFF |
| Flaps | AS REQUIRED (400 recommended) |
| Master Switch | OFF |
| Doors | UNLATCH |

|  |
| --- |
| **FOR ALL OTHER EMERGENCIES, REFER TO THE AIRCRAFT’S POH** |

|  |  |
| --- | --- |
| Emergency Freg. | 121.5 |
| Emergency Squawk | 7700 |
| Loss of Communication | 7600 |

**ENGINE FIRE DURING START ON GROUND**

|  |  |
| --- | --- |
| Cranking | CONTINUE |
| If Engine Starts | 1700 RPM, then SHUTDOWN |
| If Engine Fails to Start | |
| Throttle | FULL OPEN |
| Mixture | IDLE CUTOFF |
| Cranking | CONTINUE |
| Fuel Selector | OFF |
| Ignition Switch | OFF |
| Master Switch | OFF |
| Airplane | EVACUATE |
| Fire | EXTINGUISH |

**ENGINE FIRE INFLIGHT**

|  |  |
| --- | --- |
| Mixture | IDLE CUTOFF |
| Fuel Selector Valve | OFF |
| Master Switch | OFF |
| Cabin Heat & Air | OFF |
| Airspeed | 100 KIAS |
| Land | IMMEDIATELY |
| Continue with **Emergency Landing Without Power Checklist** | |

**ELECTRICAL FIRE INFLIGHT**

|  |  |
| --- | --- |
| Master Switch | OFF |
| Vents/Cabin Heat & Air | CLOSED |
| Fire Extinguisher | ACTIVATE |
| Avionics Master Switch | OFF |
| All Other Switches | OFF |
| Land | AS SOON AS POSSIBILE |