



PREFLIGHT

- | | | |
|----|---------------------|----------------|
| 1 | Documents | ARROW |
| 2 | Tach/Hobbs | NOTE |
| 3 | Fuel | CHECK VISUALLY |
| 4 | Oil | MIN 5 QUARTS |
| 5 | Tires (nose/mains) | 45/38 PSI |
| 6 | Emergency Equip | CHECK |
| 7 | Alternate Static | NORMAL |
| 8 | Circuit Breakers | IN |
| 9 | Electrical Equip | OFF |
| 10 | Avionics Bus 1 & 2 | OFF |
| 11 | ALT & BAT Masters | ON |
| 12 | PFD | VERIFY ON |
| 13 | Fuel Quantity Ind | CHECK |
| 14 | Low Fuel Annunc | OFF |
| 15 | Oil Pres & Vac Ann | VERIFY ON |
| 16 | Avionics Bus 1 | ON |
| 17 | Fwd Avionics Fan | AUDIBLE |
| 18 | Avionics Bus 1 | OFF |
| 19 | Avionics Bus 2 | ON |
| 20 | Aft Avionics Fan | AUDIBLE |
| 21 | Avionics Bus 2 | OFF |
| 22 | Flaps | DOWN |
| 23 | Lights & Stall Horn | CHECK |
| 24 | Low Volts Annunc | VERIFY ON |
| 25 | ALT & BAT Masters | OFF |
| 26 | Exterior Inspection | COMPLETE |

BEFORE START

- | | | |
|---|--------------------|-------------------|
| 1 | Passenger Briefing | COMPLETE |
| 2 | Seats & Belts | ADJUST & SECURE |
| 3 | Brakes | TEST & SET |
| 4 | Circuit Breakers | CHECK |
| 5 | Electrical Equip | OFF |
| 6 | Avionics Bus 1 & 2 | OFF |
| 7 | Fuel Selector | BOTH |
| 8 | Fuel Shutoff | ON (PUSH FULL IN) |

START

- | | | |
|----|--------------------|-----------------|
| 1 | Throttle | OPEN 1/4 INCH |
| 2 | Mixture | IDLE CUTOFF |
| 3 | Stby Batt TEST | LIGHT ON 20 SEC |
| 4 | Stby Batt ARM | PFD ON |
| 5 | Engine Indications | NO RED X's |
| 6 | Bus E Volts | 24 VOLTS MIN |
| 7 | Bus M Volts | 1.5 VOLTS MAX |
| 8 | Battery S Amps | DISCHARGING |
| 9 | Stby Batt Annuc | VERIFY ON |
| 10 | ALT & BAT Masters | ON |
| 11 | Beacon | ON |
- If engine is warm, omit steps 12-14 below*
- | | | |
|----|--------------------|-------------------|
| 12 | Fuel Pump | ON |
| 13 | Mixture | RICH 3-5 SEC |
| 14 | Fuel Pump | OFF |
| 15 | Magnetos | CLEAR PROP, START |
| 16 | Mixture | ADJ SMOOTH OPS |
| 17 | Oil Pressure | GREEN W/IN 30 SEC |
| 18 | Amps (M & S) | CHARGING |
| 19 | Low Volts Annunc | NOT SHOWN |
| 20 | Lights | AS REQUIRED |
| 21 | Flaps | UP |
| 22 | Avionics Bus 1 & 2 | ON |

RUNUP

- | | | |
|----|----------------------|--------------------|
| 1 | Parking Brake | SET |
| 2 | Seats, Backs & Belts | UP, SECURE, LOCKED |
| 3 | Cabin Doors | CLOSED & LATCHED |
| 4 | Flight Controls | FREE & CORRECT |
| 5 | Autopilot | CHECK & OFF |
| 6 | PFD | NO RED X's |
| 7 | Alt (PFD, Stby, A/P) | SET QNH |
| 8 | Stby Flight Instrum | CHECK |
| 9 | Fuel Quantity | CHECK |
| 10 | Mixture | RICH or SET for DA |

Alt Sel: PFD A/P Alt

YEARS: 2005+
S/N: 17259810+ G1000

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11 Fuel Selector	BOTH
12 Electric Trim (opt)	CHECK
13 Throttle	1800 RPM
14 Magnetos	150 / 50
15 Engine Indicators	CHECK
16 Amps & Volts	CHECK
17 Annunciators	NONE SHOWN

MFD: GPS1&2 Updt Fuel

TAKEOFF

1 Mixture	RICH or SET for DA
2 Elevator Trim	TAKEOFF
3 Flaps	10°
4 Annunciators	NONE SHOWN
5 Lights	ON AS REQUIRED
6 T/O, Dep & Emerg	BRIEFED
7 Time	NOTE
8 Parking Brake	RELEASE
9 Throttle	FULL
10 Rotate	55 KIAS
11 Climb Speed	70 - 80 KIAS
12 Flaps	UP AT SAFE ALT

CLIMB

1 Airspeed (Norm)	70 - 85 KIAS
Vx (SL/10k MSL)	62 / 72 KIAS
Vy (SL/10k MSL)	74 / 72 KIAS
2 Throttle	FULL
3 Mixture	LEAN above 3k MSL

CRUISE

1 Power	55% - 75%
2 Mixture	LEAN

DESCENT

1 Mixture	ADJ SMOOTH OPS
2 Fuel Selector	BOTH
3 Alt (PFD, Stby, A/P)	SET

BEFORE LANDING

1 Seats, Backs & Belts	UP, SECURE, LOCKED
2 Fuel Selector	BOTH
3 Mixture	RICH
4 Ldg & Taxi Lights	ON
5 Autopilot	OFF
6 12V Pwr (opt.)	OFF

BALKED LANDING

1 Throttle	FULL
2 Rate of Climb	POSITIVE
3 Flaps	RETRACT TO 20°
4 Airspeed	60 KIAS
5 Flaps	10°

After obstacles are cleared...

6 Airspeed	65 KIAS
7 Flaps	UP AT SAFE ALT

AFTER LANDING

1 Flaps	UP
2 Pitot Heat	OFF
3 Lights	AS REQUIRED

SHUTDOWN

1 Parking Brake	SET
2 Flight Plan	CLOSED
3 Tach & Hobbs	RECORD
4 Electrical Equip	OFF
5 Av Bus 1 & Bus 2	OFF
6 Mixture	IDLE CUTOFF
7 Magneto Switch	OFF
8 ALT & BAT Masters	OFF
9 Stby Batt	OFF
10 Fuel Selector	LEFT or RIGHT
11 Control Lock	INSTALL
12 Tie-downs, Chocks	INSTALL
13 Parking Brake	RELEASE

TERMINAL CHART (MM)

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AUTOPILOT OR ELECTRIC TRIM MALFUNCTION

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|---|-------------------|--------------|
| 1 | Airplane Control | MAINTAIN |
| 2 | AVP Disc/Trim INT | PRESS & HOLD |
- IF** *If autopilot does not disengage...*
- | | | |
|---|-------------------|----------------|
| 3 | Autopilot Breaker | PULL |
| 4 | Throttle | AS REQUIRED |
| 5 | Control Yoke | MANUALLY HOLD |
| 6 | Divert | NRST ALTERNATE |

IF *If autopilot still does not disengage...*

- | | | |
|---|----------------|-----|
| 7 | Avionics Bus 2 | OFF |
|---|----------------|-----|
- IF** *If autopilot still does not disengage, and flight is in visual conditions...*

- | | | |
|----|-------------------|----------------|
| 8 | ALT & BAT Masters | OFF |
| 9 | Stby Batt | OFF |
| 10 | Divert | NRST ALTERNATE |

CABIN FIRE IN FLIGHT

- | | | |
|---|-------------------|----------|
| 1 | Emerg. Descent | INITIATE |
| 2 | Stby Batt | OFF |
| 3 | ALT & BAT Masters | OFF |
| 4 | Vents/Air/Heat | CLOSED |
| 5 | Fire Extinguisher | ACTIVATE |

IF *If fire is not extinguished...*

- | | | |
|---|----------------|---------|
| 6 | Emerg. Landing | EXECUTE |
|---|----------------|---------|

IF *If fire is completely extinguished...*

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|---|----------------|---------|
| 6 | Emerg. Descent | ABORT |
| 7 | Divert | NEAREST |
| 8 | Cabin | VENT |

CO LEVEL HIGH

- | | | |
|---|-----------------|------|
| 1 | Cabin Heat | OFF |
| 2 | Cabin Air | ON |
| 3 | Vents & Windows | OPEN |

IF *If CO Level Annunciator remains on...*

- | | | |
|---|------|----------------|
| 4 | Land | NRST ALTERNATE |
|---|------|----------------|

EMERGENCY LANDING WITHOUT ENGINE POWER

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|---|---------------------------|------------------|
| 1 | Turn Towards Safe Terrain | |
| 2 | Seats, Backs, Belts | SECURE, UP, LOCK |
| 3 | Airspeed (flaps u/d) | 70 KIAS/65 KIAS |
| 4 | Mixture | IDLE CUTOFF |
| 5 | Fuel Shutoff | OFF (PULL OUT) |
| 6 | Magnetos | OFF |
| 7 | Flaps | AS REQUIRED |
| 8 | Stby Batt | OFF |

When landing is assured...

- | | | |
|----|-------------------|---------|
| 9 | ALT & BAT Masters | OFF |
| 10 | Doors | UNLATCH |

ENGINE FAILURE AFTER TAKEOFF

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|---|----------------------|-----------------|
| 1 | Airspeed (flaps u/d) | 70 KIAS/65 KIAS |
| 2 | Mixture | OFF |
| 3 | Fuel Shutoff Valve | OFF (PULL OUT) |
| 4 | Magnetos | OFF |
| 5 | Flaps | AS REQUIRED |
| 6 | Stby Batt | OFF |
| 7 | ALT & BAT Masters | OFF |
| 8 | Cabin Door | UNLATCH |
| 9 | Land | STRAIGHT AHEAD |

ENGINE FAILURE IN FLIGHT

- | | | |
|---|---------------|--------------|
| 1 | Airspeed | 68 KIAS |
| 2 | Fuel Shutoff | ON (PUSH IN) |
| 3 | Fuel Selector | BOTH |
| 4 | Fuel Pump | ON |
| 5 | Mixture | RICH |
| 6 | Magnetos | BOTH |

IF *If propeller is stopped...*

- | | | |
|----|-----------|----------------|
| 7 | Magnetos | START |
| 8 | Throttle | ADVANCE |
| 9 | Mixture | ADJ SMOOTH OPS |
| 10 | Fuel Pump | OFF |

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ENGINE FIRE IN FLIGHT

- | | | |
|---|-------------------|-------------------------|
| 1 | Mixture | IDLE CUTOFF |
| 2 | Fuel Shutoff | OFF (PULL OUT) |
| 3 | Fuel Pump | OFF |
| 4 | ALT & BAT Masters | OFF |
| 5 | Cabin Heat & Air | OFF |
| 6 | Overhead Vents | OPEN |
| 7 | Airspeed | 100 KIAS OR MORE |
| 8 | Emerg Landing | EXECUTE |

FUEL FLOW FLUCTUATIONS

- | | | |
|---|---------------|----------------|
| 1 | Fuel Pump | ON |
| 2 | Mixture | ADJ SMOOTH OPS |
| 3 | Fuel Selector | OPPOSITE TANK |

After fuel flow has stabilized...

- | | | |
|---|-----------|-----|
| 4 | Fuel Pump | OFF |
|---|-----------|-----|

HIGH VOLTS ANNUNCIATOR ON

- | | | |
|---|-----------------|----------------|
| 1 | ALT Master | OFF |
| 2 | Electrical Load | REDUCE |
| 3 | Land | NRST ALTERNATE |

LOW VOLTS ANUNCIATOR ON

- | | | |
|---|---------------------|---------------|
| 1 | ALT Master | OFF |
| 2 | Alternator Field CB | CHECK IN |
| 3 | ALT & BAT Masters | ON |
| 4 | Low Volts Annunc | CHECK OFF |
| 5 | M BUS VOLTS | 27.5V MINIMUM |
| 6 | M BAT AMPS | CHARGING (+) |

IF *LOW VOLTS remains on...*

- | | | |
|---|-----------------|----------------|
| 7 | ALT Master | OFF |
| 8 | Electrical Load | REDUCE |
| 9 | Land | NRST ALTERNATE |

OIL PRESSURE LOW (<20 PSI)

- | | | |
|---|----------|----------------|
| 1 | Throttle | MIN REQUIRED |
| 2 | Land | NRST ALTERNATE |

OIL PRESS OR TEMP HIGH

- | | | |
|-----------|---|-------------------------|
| 1 | Climb Rate | REDUCE |
| 2 | Airspeed | 100 KIAS OR MORE |
| 3 | Mixture | ENRICHEN |
| 4 | Throttle | REDUCE |
| IF | <i>Oil Press remains on after one minute...</i> | |
| 5 | Power | MIN REQUIRED |
| 6 | Land | NRST ALTERNATE |

PRECAUTIONARY LND W/POWER

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|---|-------------------|------------------|
| 1 | Flaps | 20° |
| 2 | Selected Field | OVERFLY, INSPECT |
| 3 | On final, Flaps | FULL |
| 4 | Airspeed | 65 KIAS |
| 5 | Stby Batt | OFF |
| 6 | ALT & BAT Masters | OFF |
| 7 | Doors | PROP OPEN |
| 8 | Mixture | IDLE CUTOFF |
| 9 | Magnetos | OFF |

SMOKE & FUME ELIMINATION

IF *Source unknown, do Cabin Fire Checklist*

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|---|------------------|----------------|
| 1 | Divert | NRST ALTERNATE |
| 2 | Heat & Fan | OFF |
| 3 | Temp Selector | COLD |
| 4 | Airflow Selector | FULL ON |
| 5 | Cabin Windows | OPEN |

IF *Airflow not enough to clear smoke/fumes...*

- | | | |
|---|-------------|----------------|
| 6 | Cabin Doors | PARTIALLY OPEN |
| 7 | Land | IMMEDIATELY |

WING FIRE IN FLIGHT

- | | | |
|----------|--|-----------|
| 1 | Emerg Descent | INITIATE |
| 2 | Pitot Heat & Lights | OFF |
| 3 | Wings | SIDE SLIP |
| ! | <i>Side-slip to keep flames away cabin</i> | |

IF *Fire not extinguished, land immediately*

