



N224PM

P-Mentor

01/2025

AIRSPEEDS (KIAS)

| | |
|----------------------------------|-----|
| V _G | 70 |
| V _{S0} | 45 |
| V _{S1} | 50 |
| V _X (T/O FLAPS) | 65 |
| V _Y (T/O FLAPS) | 70 |
| V _{FE} | 96 |
| V _A | 102 |
| V _{NO} | 107 |
| V _{NE} | 135 |

CAPACITIES

| | |
|---------------------|------------|
| TOTAL FUEL | 37 GALLONS |
| USABLE FUEL | 35 GALLONS |
| MAX IMBALANCE | 8 GALLONS |
| MINIMUM OIL | 2.5 LITERS |

CONTACT INFORMATION

| | |
|-------------------------|----------------------|
| VFA | (123.3) 802-863-5988 |
| BTV AIRPORT POLICE..... | 802-658-7663 |
| ATIS | (123.8) 802-658-8382 |
| CLEARANCE | (119.15) |
| GROUND | (126.3) |
| TOWER..... | (118.3) 802-657-4402 |
| APPROACH..... | (121.1) 802-657-4401 |

PREFLIGHT

| | |
|-----------------------------|----------------|
| AIRCRAFT LOGBOOK | CHECK |
| AIRCRAFT / PILOT DOCS | CHECK |
| COVERS | REMOVE |
| CIRCUIT BREAKERS | ALL IN |
| SAFETY BELTS..... | CHECKED |
| LANE A & B SWITCHES | OFF |
| BATTERY SWITCH | ON |
| ALTERNATOR SWITCH | OFF |
| ESS VOLTS | CHECK |
| FUEL QUANTITY..... | VERIFY |
| FUEL SELECTOR..... | LESS FULL TANK |
| LIGHTS | ON / CHECK |
| PITOT HEAT | ON / CHECK |
| STALL WARNING..... | TEST |
| LIGHTS / PITOT HEAT | OFF |
| BATTERY SWITCH | OFF |
| FIRE EXTINGUISHER..... | GREEN ARC |
| BAGGAGE AREA | CHECKED |

INTERIOR CHECKS COMPLETE

| | |
|--------------------------|---------|
| FUEL QUANTITY | CHECKED |
| FUEL SUMPS/STRAINER | CHECKED |
| FUEL TANKS / CAPS..... | CHECKED |
| AIRCRAFT EXTERIOR | CHECKED |
| CONTROL SURFACES | CHECKED |
| PITOT SYSTEM | CHECKED |
| ENGINE OIL LEVEL..... | CHECKED |
| COOLANT LEVEL | CHECKED |
| COWLING..... | SECURE |
| EXHAUST..... | CHECKED |
| LANDING GEAR | CHECKED |
| ALL TIEDOWNS..... | REMOVED |
| CHOCKS | REMOVED |

EXTERNAL CHECKS COMPLETE

BEFORE START

| | |
|--------------------------|-----------------|
| CFI WALK-AROUND | VERIFIED |
| PASSENGER BRIEF | COMPLETE |
| ALL COVERS | REMOVED |
| SEATS / BELTS | LOCK / ON |
| BRAKES | CHECK / SET |
| BATTERY SWITCH | ON |
| ALTERNATOR SWITCH | OFF |
| PROP | FULL FWD |
| THROTTLE..... | CYCLE |
| LANE A & B SWITCHES..... | OFF |
| CIRCUIT BREAKERS | ALL IN |
| AVIONICS MASTER | ON |
| AP MASTER..... | ON |
| ESS VOLTS..... | (≥11.5V) |
| ANNUNCIATOR PANEL | TEST |
| ALTERNATE AIR | CLOSED |
| FLAPS | CYCLE / UP |
| TRIM..... | CYCLE / NEUTRAL |
| NAV/STROBE | ON |

ENGINE START

| | |
|--------------------------|-----------------|
| FUEL SELECTOR | LESS FULL TANK |
| PROP AREA..... | CLEAR |
| MAIN FUEL PUMP | ON |
| LANE A & B SWITCHES..... | ON |
| BACKUP BATT | ON |
| ENG INST | VERIFY NO RED X |
| BACKUP BATT | OFF |
| PROP | FULL FWD |
| THROTTLE..... | CRACKED |
| START POWER SWITCH | HOLD ON |

LANE WARNINGS EXTINGUISH AFTER 3 SECONDS
FUEL PRESSURE STABILIZE GREEN ARC

| | |
|-------------------------|---------|
| STARTER..... | ENGAGE |
| START POWER SWITCH..... | RELEASE |

WITHIN 10 SECONDS

| | |
|--------------------------|-----------|
| OIL PRESSURE RISE | CHECK |
| LANE A & B WARNING | OFF |
| ENGINE INSTRUMENTS | CHECK |
| THROTTLE | 1000 RPM |
| BATT AMPS..... | VERIFY 0 |
| ESS VOLTS..... | GREEN ARC |
| ALTERNATOR SWITCH..... | ON |
| ALTERNATOR AMPS | CHECK |

RUN UP

| | |
|-------------------------|----------------|
| RADIOS / GPS | SET |
| ATIS / WEATHER | CHECK |
| FLT INSTRUMENTS..... | CHECK |
| FLT CONTROLS..... | FREE / CORRECT |
| ENGINE PARAMETERS | CHECK |
| FUEL PUMP..... | ON |
| FUEL SELECTOR..... | FULLEST TANK |
| FUEL PRESSURE | CHECK |
| PROP LEVER | FULL FWD |

POWER CHECK

| | |
|----------------|-------------------|
| THROTTLE | FULL |
| RPM | 2388 (+0/-20 RPM) |

LANE B CHECK

| | |
|---------------------------|----------|
| THROTTLE | 1650 RPM |
| LANE A SWITCH | OFF |
| - ENGINE RPM (±100 RPM) | |
| - LANE A WARNING LAMP ON | |
| - LANE B WARNING LAMP OFF | |
| - NO COOLANT TEMPERATURE | |
| - NO OIL PRESSURE | |
| - NO FUEL FLOW | |
| LANE A SWITCH | ON |
| LANE A WARNING | OFF |

LANE A CHECK

| | |
|---------------------------|-----|
| LANE B SWITCH | OFF |
| - ENGINE RPM (±100 RPM) | |
| - LANE A WARNING LAMP OFF | |
| - LANE B WARNING LAMP ON | |
| - NO OIL TEMP | |
| - NO OIL PRESSURE | |
| - NO FUEL FLOW | |
| LANE B SWITCH | ON |
| LANE B WARNING | OFF |

**FUEL PUMP CHECK
FUEL PRESSURE MUST REMAIN GREEN**

| | |
|---------------------|----------------|
| THROTTLE | 820 RPM |
| FUEL PUMP..... | OFF 5 SEC / ON |
| MAIN FUEL PUMP..... | OFF 5 SEC / ON |

GOVERNOR CHECK

| | |
|----------------|------|
| THROTTLE | 1770 |
|----------------|------|

| | |
|---------------------|----------|
| PROP | 1560 |
| PROP | FULL FWD |
| ALTERNATE AIR | CHECK |
| IDLE | CHECK |
| THROTTLE..... | 1000 RPM |
| FLAPS | SET T/O |

BEFORE TAKEOFF

| | |
|---------------------|-------------|
| SEATS / BELTS | LOCK / ON |
| TAKEOFF BRIEF | COMPLETE |
| TRIM | SET NEUTRAL |
| FUEL PUMPS..... | VERIFY ON |
| CANOPY..... | LATCH |

BEFORE CROSSING HOLDSHORT LINE

| | |
|--------------------|-----------|
| FUEL PRESSURE..... | GREEN ARC |
|--------------------|-----------|

TAKEOFF

| | |
|---------------|----------|
| RUNWAY..... | VERIFY |
| PROP..... | FULL FWD |
| THROTTLE..... | FULL |

CLIMB

| | |
|--------------------|------------|
| FLAPS | RETRACT |
| AIRSPEED..... | 80-90 KIAS |
| THROTTLE | AS REQ |
| PROP..... | 2250 |
| FUEL PUMP | OFF |
| FUEL PRESSURE..... | GREEN ARC |

CRUISE

| | |
|-------------------------|--------------|
| POWER | SET |
| PROP..... | SET |
| FUEL SELECTOR | DESIRED TANK |
| ENGINE INSTRUMENTS..... | CHECKED |
| ESP | AS REQ |
| LIGHTS..... | SET |

BEFORE LANDING

| | |
|-------------------------|--------------|
| ATIS / WEATHER | CHECK |
| ALTIMETERS | SET |
| APPROACH BRIEFING | COMPLETE |
| SEATS / BELTS | SECURE |
| FUEL SELECTOR | FULLEST TANK |
| LIGHTS..... | SET |
| PARKING BRAKE | FREE |

LANDING

FUEL PUMP ON
PROP FULL FORWARD
FLAPS SET

FINAL APPROACH SPEED

FLAPS UP 65 KIAS
FLAPS T/O 61 KIAS
FULL LDG 58 KIAS

AFTER LANDING

FLAPS UP
FUEL PUMP OFF
LIGHTS SET
PITOT HEAT OFF

SHUTDOWN

THROTTLE IDLE
FLAPS CHECK UP
ALT. AIR OFF
LANE A & B SWITCHES OFF
MAIN FUEL PUMP OFF
ALL ELECTRICS/AVIONICS OFF
BATTERY SWITCH OFF
ALTERNATOR SWITCH OFF
FUEL SELECTOR OFF

SECURING AIRCRAFT

CHOCKS INSTALL
TOWBAR REMOVE
AIR VENTS CLOSED
ALL TIEDOWNS SECURE
ALL COVERS INSTALL
AIRCRAFT TIMES RECORD
360° WALK AROUND COMPLETE

ENGINE FAILURE

AIRSPEED 70 KIAS
LANDING SITE SELECT
BAT/ALT ON
PROP FULL FWD
THROTTLE CRACKED
ALTERNATE AIR OPEN
FUEL QUANTITY CHECK
FUEL SELECTOR SWITCH
FUEL PUMPS BOTH ON
LANE A & B SWITCHES ON

IF PROP WINDMILLING

BACKUP BATTERY SWITCH ON

IF PROP **NOT** WINDMILLING

BACKUP BATTERY SWITCH ON
STARTER AS REQ

IF NO RESTART

ENGINE SECURE (REFER BELOW)
ATC NOTIFY
SQUAWK 7700

REFER TO AFM 3 - 30

ENG SECURE - FORCED LANDING

AIRSPEED 70 KIAS
ELT ON
THROTTLE IDLE
LANE A & B SWITCHES OFF
FUEL PUMPS OFF
FUEL SELECTOR OFF
SEAT BELTS SECURE

WHEN LANDING IS ASSURED:

FLAPS AS REQUIRED
BAT/ALT OFF

REFER TO AFM 3 - 21

ENGINE FIRE

BAT/ALT OFF
MAIN FUEL PUMP OFF
LANE A & B SWITCHES OFF
FUEL PUMP OFF
FUEL SELECTOR OFF
CABIN HEAT OFF

IF IN AIR

EMERGENCY DESCENT . EXECUTE
REFER TO NO RESTART - FORCED LANDING
CHECKLIST

EVACUATE AIRCRAFT

**OBTAIN FIRE EXTINGUISHER AND
DISCHARGE INTO FRONT
OPENINGS OF ENGINE COWLING**

REFER TO AFM 3 - 32

CABIN FIRE

CABIN HEAT OFF
CABIN VENT OPEN
FIRE EXTINGUISHER .. DISCHARGE

LAND AS SOON AS POSSIBLE
REFER TO NO RESTART - FORCED LANDING
CHECKLIST

REFER TO AFM 3-34

EMERGENCY DESCENT

FLAPS UP
THROTTLE IDLE
AIRSPEED AS REQ.

REFER TO AFM 3-34