



N223PM
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
COLANT 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
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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
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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
BATT/ALT CHECK 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
BATT/ALT OFF

REFER TO AFM 3 - 21

ENGINE FIRE

BATT/ALT SWITCH 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