



N364SP
C172S

8/13/2025

AIRSPEDS (KIAS)

V _G	68
V _{S0}	40
V _{S1}	48
V _X	62
V _Y	74
V _{FE}	85
V _{FE} (10° Only)	110
V _A (1900lbs-2550lbs)	90-105
V _{NO}	129
V _{NE}	163

WEIGHT & BALANCE

EMPTY WT	1635 LBS
GROSS WT	2550 LBS

CAPACITIES

TOTAL FUEL	56 GALLONS
USABLE FUEL	53 GALLONS
MINIMUM OIL	6 QUARTS

CONTACT INFORMATION

VFA	(123.3) 802-863-5988
BTVAIRPORT POLICE ...	802-658-7663
ATIS	(123.8) 802-657-4490
CLEARANCE	(119.15)
GROUND	(126.3)
TOWER	(118.3) 802-657-4402
APPROACH.....	(121.1) 802-657-4401

LIGHT USAGE

START / SHUTDOWN.....	BCN / NAV
RAMP	BCN / NAV / TXI*
RUNUP	BCN / NAV
TAXI	BCN / NAV / TXI*
CROSS RWY.....	ALL LGTS ON
TAKEOFF / CLIMB	ALL LGTS ON
PRAC. AREA	ALL LGTS ON
CRUISE	BCN / NAV / STRB
DESCENT / LANDING	ALL LGTS ON

* TAXI LIGHT SHALL BE ON WHENEVER AIRCRAFT IS IN MOTION AND OFF WHEN AIRCRAFT IS STOPPED.

NOTE

IF ENVIRONMENTAL CONDITIONS EXIST IN WHICH THE EXTERNAL LIGHTS CREATE A DISTRACTION TO FLIGHT, TURN THE EXTERNAL LIGHTS OFF AS APPROPRIATE.

PREFLIGHT

AIRCRAFT LOGBOOK..... CHECK
AIRCRAFT / PILOT DOCS.... CHECK
CONTROL LOCK REMOVE || COVERS..... | REMOVE |
IGNITION SWITCH	OFF
AVIONICS SWITCH	OFF
MASTER SWITCH	ON
FLAPS	CLEAR / DOWN
FUEL GAUGES	CHECK
LIGHTS	CHECK / OFF
PITOT HEAT	CHECK / OFF
MASTER SWITCH	OFF
FUEL SHUTOFF VALVE.....	ON
FUEL SELECTOR	BOTH
FIRE EXTINGUISHER . GREEN ARC	

INTERIOR CHECKS COMPLETE

FUEL QUANTITY CHECKED || FUEL SUMPS/STRAINER | CHECKED |
FUEL TANKS / CAPS.....	CHECKED
AIRCRAFT EXTERIOR	CHECKED
CONTROL SURFACES ...	CHECKED
ENGINE OIL LEVEL.....	CHECKED
LANDING GEAR.....	CHECKED
ALL TIEDOWNS.....	REMOVED
CARGO DOOR.....	SECURED
PREHEAT	DISCONNECTED
TOWBAR	REMOVED
CHOCKS	REMOVED

EXTERNAL CHECKS COMPLETE

PREFLIGHT.....COMPLETE

BEFORE START

CFI WALK-AROUND..... VERIFIED
PASSENGER BRIEF.... SEAT BELTS
DOORS, EMERGENCIES
STERILE COCKPIT
PASSENGER BRIEF..... COMPLETE
ALL COVERS PRESENT IN
AIRCRAFT
SEATS / BELTS..... LOCK / ON
BRAKES CHECK / SET || CIRCUIT BREAKERS | IN |
FUEL SELECTOR	BOTH
THROTTLE	¼ INCH OPEN
MIXTURE.....	IDLE CUTOFF
EBB SWITCH	ON / VERIFY

VERIFY G3X INITIALIZATION

MASTER SWITCH ON || LIGHTS | SET |
| AVIONICS SWITCH | OFF |

IF ENGINE COLD

ELECTRIC FUEL PUMP ON |

MIXTURE PRIME || ELECTRIC FUEL PUMP | OFF |

ENGINE START

PROP AREA..... CLEAR
IGNITION SWITCH START / BOTH
ENGINE STARTED

MIXTURE ADVANCE || THROTTLE..... | 1000 RPM |

BEFORE TAXI

ENGINE INSTRUMENTS..... CHECK
AMPS / VOLTS..... CHECK
MIXTURE..... LEAN
AVIONICS SWITCH..... ON
FLAPS RETRACT || LIGHTS SET | |
| BRAKE CHECK..... | COMPLETE |

RUN UP

BRAKES SET || RADIOS / GPS | SET |
ATIS / WEATHER	CHECK
FLT INSTRUMENTS	CHECK
FLT CONTROLS	FREE / CORRECT
FUEL SELECTOR.....	BOTH
TRIM.....	SET FOR TAKEOFF
MIXTURE	FULL RICH
ENGINE INSTRUMENTS.....	GREEN
THROTTLE.....	1800 RPM

AMPS/VOLTS..... CHECK
MAGNETOS..... (<150 RPM) CHECK
ENGINE INSTRUMENTS..... CHECK
IDLE CHECK || THROTTLE..... | 1000 RPM |

MIXTURE LEAN || AUTO PILOT | CHECK / OFF |
THROTTLE FRICTION LOCK.....	SET
ALTERNATE STATIC	CHECK
ALTIMETERS	SET
TRANSPONDER.....	ASSIGNED / SET
TAXI ROUTE	BRIEF

BEFORE TAKEOFF

SEATS / BELTS LOCK / ON || PRE-TAKEOFF BRIEF..... | COMPLETE |
FLAPS	SET
MIXTURE	FULL RICH
DOORS.....	LATCH

BEFORE CROSSING HOLD SHORT LINE

LIGHTS.....SET

PITOT HEAT AS REQUIRED |

TAKEOFF

RUNWAY..... VERIFY
X-WIND CORRECTION APPLY || THROTTLE | FULL OPEN |
| ROTATE..... | 55 KIAS |
| CLIMB SPEED..... | V_Y |

CLIMB

FLAPS RETRACT || AIRSPPEED..... | 70-85 KIAS |
| THROTTLE | FULL OPEN |
| MIXTURE..... | LEAN AS REQUIRED |

CRUISE

POWER..... SET
MIXTURE..... LEAN
LIGHTS SET |

DESCENT BEFORE LANDING

ATIS / WEATHER CHECK || ALTIMETERS | SET |
| APPROACH BRIEFING... COMPLETE | |
| SEATS / BELTS..... | SECURE |

LANDING

FUEL SELECTOR BOTH || LIGHTS | SET |
| MIXTURE | FULL RICH |
| LANDING CLEARANCE..... | VERIFY |

FINAL APPROACH SPEED

FLAPS UP..... 65-75 KIAS || FULL FLAPS (30°)..... | 60-70 KIAS |

GO AROUND

THROTTLE FULL OPEN || FLAPS..... | 20° IMMEDIATELY |
CLIMB SPEED.....	60 KIAS
FLAPS (POSITIVE RATE).....	10°
AIRSPPEED.....	V_Y
FLAPS.....	RETRACT

AFTER LANDING

TRIM SET FOR TAKEOFF || FLAPS..... | RETRACT |
| MIXTURE..... | LEAN |
| LIGHTS / PITOT HEAT..... | SET |

SHUTDOWN

BRAKES SET
 THROTTLE 1000 RPM
 AVIONICS SWITCH OFF
 MIXTURE IDLE CUTOFF
 MAGNETOS OFF
 KEY REMOVE
 LIGHTS SET
 MASTER SWITCH OFF

VERIFY G3X REMAINS ON

EBB SWITCH VERIFY / OFF
 FUEL SELECTOR RIGHT
 SECURING AIRCRAFT

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

SOFT FIELD TAKEOFF

FLAPS 10°
 THROTTLE FULL OPEN
 ELEVATOR LIFT NOSEWHEEL
 CLIMB SPEED V_X or V_Y
 AT A SAFE ALTITUDE & AIRSPEED: CLIMBING
 AIRSPEED V_X or V_Y
 FLAPS RETRACT

SOFT FIELD LANDING

FLAPS 30°
 APPROACH AIRSPEED 61 KIAS
 IN THE FLARE
 ADD POWER TO SOFTEN LANDING

SHORT FIELD TAKEOFF

FLAPS 10°
 BRAKES SET
 THROTTLE FULL OPEN
 ENGINE INSTRUMENTS GREEN
 BRAKES RELEASE
 LIFT NOSEWHEEL 55 KIAS
 CLIMB SPEED 56 KIAS
 AT A SAFE ALTITUDE & AIRSPEED: CLIMBING
 AIRSPEED V_X or V_Y
 FLAPS RETRACT

SHORT FIELD LANDING

FLAPS 30°
 APPROACH SPEED 61 KIAS
 AFTER TOUCHDOWN
 BRAKES APPLY HEAVILY
 FLAPS RETRACT
 YOKE APPLY BACK PRESSURE

ENGINE FAILURE

AIRSPEED BEST GLIDE (68 KIAS)
 LANDING SITE SELECT
 FUEL SELECTOR BOTH
 FUEL SHUT-OFF VALVE ON
 MIXTURE RICH
 ELECTRIC FUEL PUMP ON
 IGNITION SWITCH BOTH

REFER TO POH 3-5

NO RESTART - FORCED LANDING

AIRSPEED 65-70 KIAS
 ELECTRIC FUEL PUMP OFF
 MIXTURE IDLE CUTOFF
 MAGNETOS OFF
 FUEL SHUT-OFF VALVE OFF
 TRANSPONDER CODE 7700
 COMMUNICATIONS .. AS POSSIBLE
 PASSENGERS BRIEF
 TIGHTEN BELTS/HARNESSES
 WHEN LANDING IS ASSURED:
 FLAPS AS REQUIRED
 MASTER OFF
 DOORS UNLATCH
 BRAKES APPLY HEAVILY

REFER TO POH 3-5

ENGINE FIRE (DURING START)

CRANKING CONTINUE
 IF ENGINE STARTS:
 POWER 1800 RPM
 WAIT FOR 2 MINUTES
 MIXTURE IDLE CUTOFF
 IF ENGINE DOES NOT START:
 CRANKING CONTINUE
 THROTTLE FULL OPEN
 MIXTURE IDLE CUTOFF

ELECTRIC FUEL PUMP OFF
 FIRE EXTINGUISHER READY
 IGNITION SWITCH OFF
 MASTER SWITCH OFF
 FUEL SHUTOFF VALVE OFF
 FIRE EXTINGUISHER ...DISCHARGE

REFER TO POH 3-7

ENGINE FIRE (IN FLIGHT)

EMERG DESCENT ESTABLISH
 FUEL SHUT-OFF VALVE OFF
 MIXTURE IDLE CUTOFF
 ELECTRIC FUEL PUMP OFF
 MASTER SWITCH OFF
 CABIN HEAT / AIR OFF

REFER TO NO RESTART – FORCED LANDING CHECKLIST

CABIN FIRE (IN FLIGHT)

MASTER SWITCH OFF
 CABIN HEAT / AIR CLOSED
 FIRE EXTINGUISHER .. DISCHARGE

LAND IMMEDIATELY
 REFER TO NO RESTART – FORCED LANDING CHECKLIST

EMERGENCY DESCENT

THROTTLE IDLE
 BANK 30-45
 AIRSPEED 124 KIAS

LAND IMMEDIATELY
 REFER TO NO RESTART – FORCED LANDING CHECKLIST

WING FIRE

EXTERIOR LIGHTS OFF
 PITOT HEAT OFF
 SIDESLIP ESTABLISH

NOTE

PERFORM A SIDESLIP TO KEEP FLAMES AWAY FROM THE FUEL TANK AND CABIN. LAND AS SOON AS POSSIBLE USING WING FLAPS ONLY AS REQUIRED FOR FINAL APPROACH AND TOUCHDOWN.

AMMETER DISCHARGE

AVIONICS SWITCH OFF
 ALTERNATOR FIELD CB RESET
 ALTERNATOR MASTER CYCLE
 IF AMMETER INDICATES DISCHARGE:

ALTERNATOR MASTER OFF
 EBB SWITCH VERIFY ON
 LAND AS SOON AS PRACTICAL
 REFER TO POH 3-11