



N992VT
C172S

8/14/2025

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	1650 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
BTV AIRPORT 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	

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
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
ANNUNCIATOR PANEL	TEST
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 HOLDSHORT 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
AIRSPEED	70-85 KIAS
THROTTLE	FULL OPEN
MIXTURE.....	LEAN AS REQUIRED

CRUISE

POWER	SET
MIXTURE	LEAN
LIGHTS	SET
ESP	DESIRED ON/OFF

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°
AIRSPEED	V _Y
FLAPS	RETRACT

AFTER LANDING

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

SHUTDOWN

BRAKES.....SET
THROTTLE1000 RPM
AVIONICS SWITCH.....OFF
MIXTURE IDLE CUTOFF
MAGNETOS.....OFF
KEY REMOVE
LIGHTSSET
MASTER SWITCH.....OFF

FUEL SELECTORRIGHT
SECURING AIRCRAFT

CHOCKS INSTALL
TOWBAR REMOVE
AIR VENTS CLOSED
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°
BRAKESSET
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

BRAKESAPPLY HEAVILY
FLAPS RETRACT
YOKEAPPLY 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 SWITCHBOTH

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 CODE7700
COMMUNICATIONS...AS POSSIBLE
PASSENGERS BRIEF
TIGHTEN BELTS/HARNESSES
WHEN LANDING IS ASSURED:
FLAPSAS 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 VALVEOFF
MIXTURE..... IDLE CUTOFF
ELECTRIC FUEL PUMPOFF
MASTER SWITCHOFF
CABIN HEAT / AIR.....OFF

REFER TO NO RESTART – FORCED LANDING
CHECKLIST

CABIN FIRE (IN FLIGHT)

EMERGENCY DESCENT
ESTABLISH
MASTER SWITCHOFF
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 LIGHTSOFF
PITOT HEATOFF
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 SWITCHOFF
ALTERNATOR FIELD CB RESET
ALTERNATOR MASTER CYCLE
IF AMMETER INDICATES DISCHARGING:
ALTERNATOR MASTER OFF
LAND AS SOON AS PRACTICAL
REFER TO POH 3-11