



N4841D

C172N

12/1/2023

AIRSPEDS (KIAS)

Vg.....	65
Vso.....	41
Vs1.....	47
Vx.....	59
Vy.....	73
Vfe.....	85
Vfe (10° Only).....	110
Va.....	97
Vno.....	128
Vne.....	160

WEIGHT & BALANCE

EMPTY WT.....	1491 LBS
GROSS WT.....	2400 LBS

CAPACITIES

TOTAL FUEL.....	54 GALLONS
USABLE FUEL.....	50 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 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
CARB HEAT.....	COLD
THROTTLE.....	¼ INCH OPEN
MIXTURE.....	FULL RICH
MASTER SWITCH.....	ON
LIGHTS.....	SET
AVIONICS SWITCH.....	OFF

IF ENGINE COLD

PRIMER.....PRIME / LOCK

ENGINE START

PROP AREA.....	CLEAR
IGNITION SWITCH.....	START / BOTH
ENGINE STARTED	
THROTTLE.....	1000 RPM

BEFORE TAXI

ENGINE INSTRUMENTS.....	CHECK
AMPS.....	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.....	1700 RPM
AMPS.....	CHECK
MAGNETOS.....	(<125 RPM) CHECK
CARB HEAT.....	ON
ENGINE INSTRUMENTS.....	CHECK
IDLE.....	CHECK
THROTTLE.....	1000 RPM
CARB HEAT.....	OFF
MIXTURE.....	LEAN
THROTTLE FRICTION LOCK.....	SET
ALTERNATE STATIC.....	CHECK
AUTOPILOT.....	CHECK / OFF
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.....	Vy

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
CARB HEAT.....	ON
LANDING CLEARANCE.....	VERIFY
FINAL APPROACH SPEED	
FLAPS UP.....	65-70 KIAS
FULL FLAPS (40°).....	60-70 KIAS

GO AROUND

THROTTLE.....	FULL OPEN
FLAPS.....	20° IMMEDIATELY
CLIMB SPEED.....	55 KIAS
FLAPS (POSITIVE RATE).....	10°
AIRSPPEED.....	Vy
CARB HEAT.....	OFF
FLAPS.....	RETRACT

AFTER LANDING

TRIM.....	SET FOR TAKEOFF
FLAPS.....	RETRACT
CARB HEAT.....	OFF
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
 FUEL SELECTOR RIGHT
 SECURING AIRCRAFT

CHOCKS INSTALL
 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 40°
 APPROACH AIRSPEED 60 KIAS
 IN THE FLARE

ADD POWER TO SOFTEN LANDING**SHORT FIELD TAKEOFF**

FLAPS UP
 BRAKES SET
 THROTTLE FULL OPEN
 ENGINE INSTRUMENTS GREEN
 BRAKES RELEASE
 LIFT NOSEWHEEL 55 KIAS
 CLIMB SPEED 59 KIAS
 AT A SAFE ALTITUDE & AIRSPEED: CLIMBING
 AIRSPEED V_x or V_y
 FLAPS RETRACT

SHORT FIELD LANDING

FLAPS 40°
 APPROACH SPEED 60 KIAS
 AFTER TOUCHDOWN
 BRAKES APPLY HEAVILY
 FLAPS RETRACT
 YOKE APPLY BACK PRESSURE

ENGINE FAILURE

AIRSPEED BEST GLIDE (65 KIAS)
 LANDING SITE SELECT
 FUEL SELECTOR BOTH
 MIXTURE RICH
 CARB HEAT ON
 PRIMER IN / LOCKED
 IGNITION SWITCH BOTH

REFER TO POH 3-11

NO RESTART - FORCED LANDING

AIRSPEED 60-65 KIAS
 MIXTURE IDLE CUTOFF
 MAGNETOS OFF
 FUEL SELECTOR 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 3-12

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

FIRE EXTINGUISHER READY
 IGNITION SWITCH OFF
 MASTER SWITCH OFF
 FUEL SELECTOR OFF
 FIRE EXTINGUISHER... DISCHARGE
 REFER TO POH 3-5

ENGINE FIRE (IN FLIGHT)

FUEL SELECTOR OFF
 THROTTLE CLOSED
 MIXTURE IDLE CUTOFF
 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 123 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 DISCHARGING:
 ALTERNATOR MASTER OFF
 LAND AS SOON AS PRACTICAL
 REFER TO POH 3-9