



N64AF
C172R

8/28/2025

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.....	1665 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) 802-658-8382
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
ALL COVERS.....	REMOVED
CARGO DOOR.....	SECURED
PREHEAT.....	DISCONNECTED
TOWBAR.....	REMOVED
CHOCKS.....	REMOVED

EXTERNAL CHECKS COMPLETE

PREFLIGHT.....COMPLETE

BEFORE START

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
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
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

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

BRAKESSET
THROTTLE1000 RPM
AVIONICS SWITCH OFF
MIXTURE IDLE CUTOFF
MAGNETOS OFF
KEY REMOVE
LIGHTSSET
MASTER SWITCH OFF

FUEL SELECTORRIGHT
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 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)

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 DISCHARGING:

ALTERNATOR MASTER OFF
LAND AS SOON AS PRACTICAL
REFER TO POH 3-11