

AIR SPEEDS (MPH)

V _G	83
V _{S0}	55
V _{S1}	64
V _X	74
V _Y	85
V _{FE}	115
V _A	129
V _{NO}	140
V _{NE}	171

WEIGHT & BALANCE

EMPTY WT	1330 LBS
GROSS WT	2150 LBS

CAPACITIES

TOTAL FUEL	50 GALLONS
USABLE FUEL	48 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 SELECTOR	FULLEST TANK
FIRE EXTINGUISHER	GREEN ARC

INTERIOR CHECKS COMPLETE

FUEL QUANTITY	CHECKED
FUEL SUMPS.....	CHECKED
FUEL TANKS / CAPS.....	CHECKED
AIRCRAFT EXTERIOR.....	CHECKED
CONTROL SURFACES	CHECKED
ENGINE OIL LEVEL.....	CHECKED
LANDING GEAR	CHECKED
ALL TIEDOWNS.....	REMOVED
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	FULLEST TANK
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
FUEL PUMP	ON
IGNITION SWITCH	START / BOTH

ENGINE STARTED

THROTTLE 1000 RPM

BEFORE TAXI

ENGINE INSTRUMENTS	CHECK
AMPS	CHECK
FUEL PUMP.....	OFF
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.....	FULLEST TANK
TRIM	SET FOR TAKEOFF
MIXTURE	FULL RICH
ENGINE INSTRUMENTS	GREEN
THROTTLE	1800 RPM
AMPS	CHECK
MAGNETOS..... (<175 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
ALTIMETERS.....	SET
TRANSPONDER.....	ASSIGNED / SET
TAXI ROUTE.....	BRIEF

BEFORE TAKEOFF

SEATS / BELTS.....	LOCK / ON
PRE-TAKEOFF BRIEF	COMPLETE
FLAPS.....	SET
MIXTURE	FULL RICH
FUEL PUMP.....	ON
DOOR	LATCH
BEFORE CROSSING HOLDSHORT LINE	
LIGHTS	SET
PITOT HEAT	AS REQUIRED

TAKEOFF

RUNWAY	VERIFY
X-WIND CORRECTION	APPLY
THROTTLE.....	FULL OPEN
ROTATE	60 MPH
CLIMB SPEED	V _Y

CLIMB

FLAPS	RETRACT
AIR SPEED.....	90-100 MPH
THROTTLE	FULL OPEN
MIXTURE.....	LEAN AS REQUIRED
FUEL PUMP	OFF

CRUISE

POWER	SET
MIXTURE.....	LEAN
LIGHTS.....	SET
FUEL SELECTOR....	SWITCH HOURLY

DESCENT BEFORE LANDING

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

LANDING

FUEL SELECTOR.....	FULLEST TANK
FUEL PUMP	ON
LIGHTS.....	SET
MIXTURE.....	FULL RICH
CARB HEAT	AS REQUIRED
LANDING CLEARANCE.....	VERIFY
FINAL APPROACH SPEED	

FLAPS UP	85 MPH
FULL FLAPS (40°).....	76 MPH

GO AROUND

THROTTLE	FULL OPEN
FLAPS	25° IMMEDIATELY
CLIMB SPEED	85 MPH
FLAPS (POSITIVE RATE)	10°
CARB HEAT	OFF
AIR SPEED	V _Y
FLAPS	RETRACT

AFTER LANDING

TRIM SET FOR TAKEOFF
 FLAPS RETRACT
 CARB HEAT OFF
 MIXTURE LEAN
 FUEL PUMP OFF
 LIGHTS SET

SHUTDOWN

BRAKES SET
 THROTTLE 1000 RPM
 AVIONICS SWITCH OFF
 MIXTURE IDLE CUTOFF
 MAGNETOS OFF
 KEY REMOVE
 LIGHTS SET
 MASTER SWITCH OFF
 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 25°
 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 70 MPH
 IN THE FLARE

ADD POWER TO SOFTEN LANDING

SHORT FIELD TAKEOFF

FLAPS 25°
 BRAKES SET
 THROTTLE FULL OPEN
 ENGINE INSTRUMENTS GREEN
 BRAKES RELEASE
 LIFT NOSEWHEEL 55 MPH
 CLIMB SPEED 74 MPH
 AT A SAFE ALTITUDE & AIRSPEED: CLIMBING
 AIRSPEED V_x or V_y
 FLAPS RETRACT

SHORT FIELD LANDING

FLAPS 40°
 APPROACH SPEED 70 MPH
 AFTER TOUCHDOWN
 BRAKES APPLY HEAVILY
 FLAPS RETRACT
 YOKE APPLY BACK PRESSURE

ENGINE FAILURE

AIRSPEED BEST GLIDE (83 MPH)
 LANDING SITE SELECT
 FUEL SELECTOR.... FULLEST TANK
 MIXTURE RICH
 CARB HEAT ON
 FUEL PUMP ON
 PRIMER IN / LOCK
 IGNITION SWITCH BOTH

NO RESTART - FORCED LANDING

AIRSPEED 76-85 MPH
 FUEL PUMP OFF
 MIXTURE IDLE CUTOFF
 MAGNETOS OFF
 TRANSPONDER CODE 7700
 COMMUNICATIONS .. AS POSSIBLE
 PASSENGERS BRIEF
 TIGHTEN BELTS / HARNESSSES
 WHEN LANDING IS ASSURED:
 FLAPS AS REQUIRED
 MASTER OFF
 DOORS UNLATCH
 BRAKES APPLY HEAVILY

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
 FUEL PUMP OFF
 FIRE EXTINGUISHER READY
 IGNITION SWITCH OFF
 MASTER SWITCH OFF
 FUEL SELECTOR OFF
 FIRE EXTINGUISHER... DISCHARGE

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 135 MPH
 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