

AIRSPEDS (KIAS)

V _G	79
V _{S0}	55
V _{S1}	60
V _X	78
V _Y	90
V _{FE}	103
V _{LE}	129
V _A (1865lbs-2750lbs)	96-118
V _{NO}	146
V _{NE}	183

WEIGHT & BALANCE

EMPTY WT	1628 LBS
GROSS WT	2750 LBS

CAPACITIES

TOTAL FUEL	77 GALLONS
USABLE FUEL	72 GALLONS
FUEL AT TABS.....	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	UNLATCH
COVERS.....	REMOVE
LDG GEAR SELECTOR.....	DOWN
IGNITION SWITCH	OFF
AVIONICS SWITCH	OFF
MASTER SWITCH	ON
FLAPS	CLEAR / DOWN
FUEL GAUGES	CHECK
LIGHTS.....	CHECK / OFF
PITOT HEAT	CHECK / OFF
STALL WARNING	TEST
LDG GEAR INDICATOR	3 GREEN
MASTER SWITCH	OFF
FUEL SELECTOR	FULLEST TANK
STATIC DRAINS	CHECK
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	
ALL COVERS .PRESENT IN AIRCRAFT	
SEATS / BELTS	LOCK / ON
BRAKES	CHECK / SET
CIRCUIT BREAKERS	IN
FUEL SELECTOR	FULLEST TANK
PROPELLER	HIGH RPM
THROTTLE	1/2 INCH OPEN
MIXTURE.....	IDLE CUTOFF
EBB SWITCH	ON
G3X INITIALIZATION	VERIFY
MASTER SWITCH	ON
LIGHTS.....	SET

AVIONICS SWITCH	OFF
FUEL PUMP.....	ON

IF ENGINE COLD

MIXTURE	PRIME
---------------	-------

ENGINE START - NORMAL

PROP AREA	CLEAR
IGNITION SWITCH	START / BOTH

ENGINE STARTED

MIXTURE	ADVANCE
THROTTLE	1000 RPM

ENGINE START - FLOODED

THROTTLE	FULL
FUEL PUMP.....	OFF
MIXTURE	IDLE CUTOFF
PROP AREA	CLEAR
IGNITION SWITCH	START / BOTH

ENGINE STARTED

MIXTURE	ADVANCE
THROTTLE	1000 RPM

BEFORE TAXI

ENGINE INSTRUMENTS	CHECK
FUEL PUMP.....	OFF
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.....	FULLEST TANK
ELEVATOR TRIM .SET FOR TAKEOFF	
RUDDER TRIM	CENTER
MIXTURE	FULL RICH
ENGINE INSTRUMENTS	GREEN
THROTTLE	2000 RPM
AMPS/VOLTS.	CHECK
MAGNETOS..... (<175 RPM)	CHECK
PROPELLER.....	CYCLE
ALTERNATE AIR	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	
FUEL PUMP	ON
LIGHTS.....	SET
PITOT HEAT	AS REQUIRED

TAKEOFF

RUNWAY.....	VERIFY
X-WIND CORRECTION	APPLY
THROTTLE.....	FULL OPEN
ROTATE	70 KIAS
CLIMB SPEED	V _Y
LDG GEAR SELECTOR.....	UP

CLIMB

FLAPS	RETRACT
AIRSPEED.....	104 KIAS
THROTTLE	FULL OPEN
PROPELLER	HIGH RPM
MIXTURE.....	LEAN AS REQUIRED
FUEL PUMP	OFF

CRUISE

POWER	SET
PROPELLER	SET
MIXTURE.....	LEAN
FUEL SELECTOR...SWITCH HOURLY	
LIGHTS.....	SET
INSTRUCTOR	VERIFY ESP

SWITCHING FUEL TANKS

FUEL PUMP.....	ON
FUEL SELECTOR	SWITCH
FUEL FLOW	STABLE
FUEL PUMP	OFF
FUEL FLOW	STABLE

BEFORE LANDING

ATIS / WEATHER CHECK
ALTIMETERS SET
APPROACH BRIEFING..... COMPLETE
SEATS / BELTS..... SECURE
FUEL SELECTOR FULLEST TANK
LIGHTS SET
MIXTURE..... ENRICHEN

LANDING

FLAPS..... SET
LDG GEAR SELECTOR..... DOWN
LDG GEAR INDICATOR 3 GREEN
FUEL PUMP ON
PROPELLER HIGH RPM
LANDING CLEARANCE..... VERIFY
FINAL APPROACH SPEED

FLAPS UP 82 KIAS
FULL FLAPS (40°)..... 75 KIAS

GO AROUND

THROTTLE FULL OPEN
FLAPS..... 25° IMMEDIATELY
AIRSPEED..... 75 KIAS
LDG GEAR SELECTOR..... UP
AIRSPEED..... ABOVE 80
FLAPS..... 10°
AIRSPEED..... V_Y
FLAPS..... RETRACT

AFTER LANDING

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

SHUTDOWN

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

SECURING AIRCRAFT

CHOCKSINSTALL
TOWBAR..... REMOVE
CONTROL LOCK..... LATCH
ALL TIEDOWNS..... SECURE
ALL COVERS.....INSTALL
AIRCRAFT TIMES RECORD
360° WALK AROUND COMPLETE

SOFT FIELD TAKEOFF

FLAPS 25°
THROTTLE FULL OPEN
LIFT NOSEWHEEL 50-60 KIAS
CLIMB SPEED 55-65 KIAS
AT A SAFE ALTITUDE & AIRSPEED: CLIMBING
AIRSPEED..... V_Y
LDG GEAR SELECTOR..... UP
FLAPS RETRACT

SOFT FIELD LANDING

FLAPS 40°
APPROACH AIRSPEED 75 KIAS
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 50-60 KIAS
CLIMB SPEED 55-65 KIAS
AT A SAFE ALTITUDE & AIRSPEED: CLIMBING
AIRSPEED..... V_X or V_Y
LDG GEAR SELECTOR..... UP
FLAPS RETRACT

SHORT FIELD LANDING

FLAPS 40°
APPROACH SPEED 72 KIAS
AFTER TOUCHDOWN
BRAKES APPLY HEAVILY
FLAPS RETRACT
YOKE..... APPLY BACK PRESSURE

ENGINE FAILURE

AIRSPEED BEST GLIDE (79 KIAS)
LANDING SITE SELECT
FUEL SELECTOR... SWITCH TANKS
MIXTURE RICH
ALTERNATE AIR OPEN
FUEL PUMP..... ON
IGNITION SWITCH BOTH

REFER TO POH 3-3

NO RESTART - FORCED LANDING

AIRSPEED 79 KIAS
FUEL PUMP OFF
MIXTURE IDLE CUTOFF
MAGNETOS OFF
FUEL SELECTOR OFF
TRANSPONDER CODE..... 7700
COMMUNICATIONS .. AS POSSIBLE
PASSENGERS BRIEF
TIGHTEN BELTS/HARNESSES
WHEN LANDING IS ASSURED:
LDG GEAR SEL AS REQUIRED
MASTER OFF
FLAPS..... AS REQUIRED
DOOR UNLATCH
BRAKES APPLY HEAVILY

REFER TO POH 3-3

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)

AIRSPEED 124 KIAS
FUEL SELECTOR..... OFF
MIXTURE IDLE CUTOFF
FUEL PUMP OFF
MASTER SWITCH OFF
CABIN HEAT / AIR..... OFF

REFER TO NO RESTART – FORCED LANDING
CHECKLIST

CABIN FIRE (IN FLIGHT)

EMERGENCY DESCENT
ESTABLISH
MASTER SWITCH OFF
CABIN HEAT CLOSED
FIRE EXTINGUISHER .. DISCHARGE

LAND IMMEDIATELY
REFER TO NO RESTART – FORCED LANDING
CHECKLIST

EMERGENCY GEAR EXTENSION

MASTER..... VERIFY ON
CIRCUIT BREAKERS IN
LDG GEAR IND. LIGHTS..... DAY
LDG GEAR IND. BULBS..... CHECK
AIRSPEED BELOW 87 KIAS
LDG GEAR SELECTOR DOWN
EMERG. GEAR SEL HOLD DOWN
LDG GEAR INDICATOR 3 GREEN

NOTE: IF GEAR FAIL TO LOCK DOWN: YAW
THE AIRPLANE ABRUPTLY SIDE TO SIDE.
REFER TO POH 3-4

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 3-4