

**AIR SPEEDS (KIAS)**

V <sub>G</sub> .....	65
V <sub>S0</sub> .....	40
V <sub>S1</sub> .....	48
V <sub>X</sub> .....	62
V <sub>Y</sub> .....	74
V <sub>FE</sub> .....	85
V <sub>FE</sub> (10° Only).....	110
V <sub>A</sub> (1900lbs-2550lbs).....	90-105
V <sub>NO</sub> .....	129
V <sub>NE</sub> .....	163

**WEIGHT & BALANCE**

EMPTY WT.....	1635 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
EBB SWITCH.....	ON / VERIFY

**VERIFY G3X INITIALIZATION**

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
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 <sub>Y</sub>

**CLIMB**

FLAPS.....	RETRACT
AIR SPEED.....	70-85 KIAS
THROTTLE.....	FULL OPEN
MIXTURE.....	LEAN AS REQUIRED

**CRUISE**

POWER.....	SET
MIXTURE.....	LEAN
LIGHTS.....	SET
ESP VERIFY.....	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°
AIR SPEED.....	V <sub>Y</sub>
FLAPS.....	RETRACT

**AFTER LANDING**

TRIM.....	SET FOR TAKEOFF
FLAPS.....	RETRACT
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

VERIFY G3X REMAINS ON

EBB SWITCH ..... VERIFY / 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 ..... 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 DISCHARGE:

ALTERNATOR MASTER ..... OFF  
 EBB SWITCH ..... VERIFY ON  
 LAND ..... AS SOON AS PRACTICAL

REFER TO POH 3-11