

**AIR SPEEDS (KIAS)**

|                                       |        |
|---------------------------------------|--------|
| V <sub>G</sub> .....                  | 68     |
| 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..... | 1693 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      |
| 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             |
| AUTO PILOT.....             | CHECK / OFF      |
| 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 <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  |

**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  
 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