

<b>PREFLIGHT</b>	<b>ENGINE RUN UP</b>
<ul style="list-style-type: none"> <li>• Check cabin / cabin equipment.</li> <li>• Check ignition off</li> <li>• master switch on</li> <li>• Fuel pump on (pressurize system)</li> <li>• fuel pump off</li> <li>• fuel quantity check</li> <li>• stall warning check</li> <li>• master off</li> <li>• Fuel drain x3 tanks + engine</li> <li>• Engine oil check min 5 qtz</li> <li>• airframe secure no damage</li> <li>• <b>Rudder lock removed</b></li> <li>• All covers and straps clear of aircraft</li> </ul>	<ul style="list-style-type: none"> <li>• Suitable location preferably into wind</li> <li>• Brakes held on</li> <li>• Fuel selected fullest tank</li> <li>• Set Throttle RPM 1500</li> <li>• Check ignition L &amp; R then both</li> <li>• Throttle Idle check 650 rpm</li> <li>• Set Throttle 1000 rpm</li> </ul>
	<b>BEFORE ENTERING RUNWAY</b>
	<ul style="list-style-type: none"> <li>• <i>Radio "Call given"</i></li> <li>• <i>Strobe lights on</i></li> <li>• <i>Transponder set ALT</i></li> </ul>
<b>PRESTART</b>	<b>AFTER TAKEOFF</b>
<ul style="list-style-type: none"> <li>• Lock door left side lock and above lock</li> <li>• Adjust seats and Harnesses</li> <li>• Brakes check pressure on hold on</li> <li>• Ignition switch off</li> <li>• Fuel selected on L or R (least or left)</li> <li>• Master switch on</li> <li>• Electric fuel pump on</li> <li>• Prime engine 3 pumps cold 2 pumps hot</li> <li>• Set throttle 5 mm in</li> <li>• Check and call "Clear Prop"</li> <li>• Ignition on</li> <li>• Engage starter</li> </ul>	<ul style="list-style-type: none"> <li>• <i>300 Ft flaps up</i></li> <li>• <i>Temperature and pressure check</i></li> <li>• <i>1000 Ft fuel pump off</i></li> <li>• <i>Check fuel pressure</i></li> </ul>
	<ul style="list-style-type: none"> <li>• <i>B - Brakes</i></li> <li>• <i>U – Undercarriage</i></li> <li>• <i>M - Mixture</i></li> <li>• <i>P- Pump / pressure</i></li> <li>• <i>F – Fuel sufficient / selector</i></li> <li>• <i>I – Instruments Green range</i></li> <li>• <i>S – Switches</i></li> <li>• <i>C – Carburettor heat</i></li> <li>• <i>H – Hatches and Harnesses</i></li> </ul>
<b>AFTERSTART</b>	<b>AFTER LANDING CLEAR OF THE RUNWAY</b>
<ul style="list-style-type: none"> <li>• Set RPM 1000</li> <li>• Check oil pressure <b>GREEN</b> range</li> <li>• Check Ammeter charging</li> <li>• Suction <b>GREEN</b></li> <li>• Electrical switches on as required</li> <li>• Radio checked and set.</li> <li>• Brakes checked</li> <li>• Instruments checked and set</li> </ul>	<ul style="list-style-type: none"> <li>• Clear of runway radio call</li> <li>• Brakes set</li> <li>• Identify flaps and select up</li> <li>• Strobe / landing lights off</li> <li>• Brakes release taxi to parking</li> </ul>
<b>BEFORE TAKE OFF</b>	<b>AIRCRAFT SHUTDOWN</b>
<ul style="list-style-type: none"> <li>• Parking brake set</li> <li>• Cabin doors closed and latched</li> <li>• Flight controls free and correct</li> <li>• Flaps set 10°</li> <li>• Flight instruments set</li> <li>• Fuel SET FULLEST TANK</li> <li>• Mixture rich</li> <li>• ELECTRIC FUEL PUMP ON</li> <li>• Elevator trim set for take off</li> <li>• Throttle Friction adjusted.</li> </ul>	<ul style="list-style-type: none"> <li>• Brakes on</li> <li>• Unnecessary electrical equipment off</li> <li>• Idle 1000 RPM</li> <li>• Electric Fuel pump off</li> <li>• Mixture to idle Cut-Off</li> <li>• Ignition switch off</li> <li>• Master switch off</li> <li>• Seat belts release</li> <li>• Canopy open</li> <li>• Paperwork and secure aircraft</li> </ul>

**\*\* Memory checks given in Italic blue**

AIRSPEEDS		FORCED LANDING
<b>AIRCRAFT AIRSPEEDS</b>		<ul style="list-style-type: none"> <li>GLIDE 70 KIAS</li> <li>CHECK ENGINE TEMPERATURES</li> <li>CHECK FUEL CONTENTS SUFFICIENT AND SELECTED ON</li> <li>CHECK IGNITION ON</li> <li>FUEL PUMP ON</li> <li>MIXTURE RICH</li> <li>CHECK THROTTLE FULL RANGE</li> <li>TRY RESTART THROTTLE SET ENGAGE STARTER</li> </ul> <p><u>NO RESTART CAPABILITY</u></p> <ul style="list-style-type: none"> <li>- CONDUCT FORCED LANDING THROTTLE CLOSED</li> <li>IF TIME PERMITS "MAYDAY CALL"</li> <li>FUEL SELECTOR OFF</li> <li>ELECTRIC FUEL PUMP OFF</li> <li>MASTER SWITCH OFF</li> <li>IGNITION SWITCHES OFF</li> <li>HARNESS SECURE</li> <li>HATCHES UNLOCKED</li> </ul>
<b>VNE</b>	182 KIAS	
<b>VNO</b>	135 KIAS	
<b>V<sub>FE</sub></b>	82 KIAS	
<b>V<sub>A</sub></b>	115 KIAS	
<b>V<sub>S</sub> FLAPS UP</b>	48 KIAS	
<b>V<sub>S</sub> FULL FLAP</b>	45 KIAS	
<b>TOSS</b>	60 KIAS	
<b>VAPP FINAL</b>	60 KIAS	
<b>MAX XW</b>	12 KIAS	
ENGINE FAILURE DURING TAKE OFF		ENGINE FIRE DURING START
<ul style="list-style-type: none"> <li><i>THROTTLE IDLE / CLOSED</i></li> <li><i>BRAKES APPLY</i></li> <li><i>WING FLAPS RETRACT</i></li> <li><i>MIXTURE IDLE CUT OFF</i></li> <li><i>IGNITION SWITCH OFF</i></li> <li><i>MASTER SWITCH OFF</i></li> </ul>		<ul style="list-style-type: none"> <li>THROTTLE CLOSE</li> <li>FUEL SELECTOR OFF</li> <li>FUEL PUMP OFF</li> <li>CONTINUE TO CRANK ENGINE</li> </ul> <ul style="list-style-type: none"> <li>IF FIRE CONTINUES</li> </ul> <p>IGNITION OFF MASTER OFF VACATE AIRCRAFT</p>
ENGINE FAILURE AFTER TAKEOFF		ENGINE FIRE INFLIGHT
<ul style="list-style-type: none"> <li><i>FLY THE AIRCRAFT AIRSPEED 70 KIAS</i></li> <li><i>SELECT LANDING AREA</i> <i>IF time permits:</i></li> <li><i>MIXTURE IDLE CUT OFF</i></li> <li><i>FUEL VALVE CLOSE</i></li> <li><i>IGNITION SWITCH OFF</i></li> <li><i>WING FLAPS AS REQUIRED</i></li> <li><i>MASTER SWITCH OFF</i></li> </ul>		<ul style="list-style-type: none"> <li>THROTTLE OPEN</li> <li>FUEL SELECTOR OFF</li> <li>FUEL PUMP OFF</li> <li>CONDUCT FORCED LANDING</li> </ul>