



**NORMAL PROCEDURES FOR C – 172M
SX-AAT**

<p>PREFLIGHT C - 172M</p> <ol style="list-style-type: none"> Aircraft Documents - Check. Weather - Suitable. Baggage - Weighed, stowed, secured. Weight and C. G. - Check. Navigation - Planned. Charts and Nav aids - Check. Performance - Determined <p>INTERIOR</p> <ol style="list-style-type: none"> Hobbs / Tach time - Check. P. O. H. - On board. Control Lock - Remove. Avionics - Off. Electrical Switches - Off. Carb Heat - Cold. Mixture – Idle. Cut. Off. Master Switch – On / Call. Fuel Quantity - Check. Lights (Night) - Check. Pitot Heat— Check Flaps - Down / Check. Master Switch - Off. Flight Controls - Check. Fuel Selector - Both Trim - Neutral. Windows - Check Clean. <p>EXTERIOR AS PER MANUAL</p> <p>BEFORE START</p> <ol style="list-style-type: none"> Preflight - Complete. Passenger Briefing - Done. Cabin Doors - Closed . Seats - Adjusted / Locked. Belts / Harnesses - Secure Circuit Breakers - Check In. All Switches - Off. Brakes - Set and Test. 	<p>START</p> <ol style="list-style-type: none"> Prime - As Req. Mixture - Rich. Throttle - Open 1/ 2”. Master Switch - On / Call. Flaps - UP. Beacon - On. Prop Area - Clear / Call. Starter - Engage. Throttle - 1000 RPM. Oil Pressure - Check. Oil Temperature—wait for green <p>PRE – TAXI</p> <ol style="list-style-type: none"> Nav. Lights - As Req. Avionics Switch - On Radios - On / Set. Transponder - Sby. Airspeed—ZERO Gyro – Set with Magn. Compass Attitude Indicator -Set Radio Calls - As Req. Altimeters – Ser & Check (within 75 ft of elev) VOR ADF Receivers – TEST GPS – On & Check Operation Taxi Area - Clear. Throttle – Apply Smoothly. Brakes - Check. <p>TAXI</p> <ol style="list-style-type: none"> Controls - Position for wind Instruments - Check on taxi <p>RUN - UP</p> <ol style="list-style-type: none"> Brakes - Set. Fuel Selector - Both. Mixture - Rich. Throttle - 1700 RPM. Magnetos – Left, Right Check ->Max Drop 125 ->Max Diff 50 Carb Heat - Check. Engine Instruments - Check. Suction Gauge - Check. Ammeter - Check. Carb Heat - Off Throttle - 1000 RPM. 	<p>BEFORE TAKEOFF</p> <ol style="list-style-type: none"> Flight Instruments – Set / Check Radios / Avionics - Set. Engine Gauges - Check. Mixture - Set. Carb Heat - Off. Belts / Harnesses - Check. Flaps - As Req. Trim - Set for takeoff. Controls - Check. Doors / Windows - Latch. Brakes - Recheck. <p>CROSSING HOLD LINE</p> <ol style="list-style-type: none"> Transponder - Altitude Strobes - On. <p>TAKEOFF</p> <p>Normal Vr - 65 MPH Short / Soft - Per Manual</p> <p>CLIMB</p> <p>Vx - 68 MPH Vy - 80 MPH Cruise Climb - 85 MPH.</p> <p>CRUISE</p> <ol style="list-style-type: none"> Power - Per Manual. Trim - Adjust. Mixture - Set. Landing Light - Off. Engine Instruments - Check. Flight Instruments - Set. <p>PRE - DESCENT</p> <ol style="list-style-type: none"> Fuel Selector - Both. Power - As Req. Mixture - Enrichen. Carb Heat - As Req. Flight Instruments - Set. Engine Gauges - Monitor. 	<p>45 ENTRY / DOWNWIND</p> <ol style="list-style-type: none"> Fuel Selector - Both. Mixture - Full Rich. Throttle - As Req (80 - 90 MPH). Landing Lights/Strobes- As Req. Ignition – Check Both Master Switch – Check On. Primer – Check Locked. Belts / Harnesses - Check. <p>NORMAL LANDING</p> <ol style="list-style-type: none"> Mixture—RICH Carb Heat—ON Flaps—AS REQUIRED Trim Adjust Approach Speed 65-75 Full Flap 70-80 No Flap <p>SHORT FIELD LANDING</p> <ol style="list-style-type: none"> Mixture—RICH Carb. Heat—ON Flaps—40° Final Approach—75 MPH Threshold Speed—70 MPH Brakes—APPLY Flaps—RETRACT <p>AFTER LANDING</p> <ol style="list-style-type: none"> Throttle - 1000 RPM. Mixture - Lean for Taxi. Carb Heat - Cold. Flaps - Up. Trim - Neutral. Landing / Strobes – As Req. Transponder - Sby / Off. Unnecessary Avionics - Off. Radio Calls - As Req. 	<p>SHUTDOWN / SECURING</p> <ol style="list-style-type: none"> Avionics / Electrical - Off. Mixture - I. C. O. Ignition - Off / Key on dash. Master - Off. All Switches - Off. Windows - Close / Latch. Seatbelts - Stow. Control Lock - Install. Hobbs / Tach times - Record Aircraft – Properly Secure. Discrepancies – Write Up. <p>V - SPEEDS C - 172M</p> <p>Vso 54 MPH Vs 61 MPH Vr 60 MPH Vx 68 MPH Vy 80 MPH Va (2300 #) 112 MPH Vfe 100 MPH Vno 145 MPH Vne 182 MPH Final Approach 75 MPH Final (short field) 70 MPH Best Glide 80 MPH</p>
--	--	---	--	---



**EMERGENCY PROCEDURES FOR C – 172M
SX-AAT**

<p><u>ENGINE FAILURES</u> <u>TAKEOFF RUN</u></p> <ol style="list-style-type: none"> 1. Throttle - Idle. 2. Brakes - Apply. 3. Wing Flaps - Retract. 4. Mixture - I. C. O.. 5. Ignition - Off. 6. Master Switch - Off. <p><u>AFTER TAKEOFF</u></p> <ol style="list-style-type: none"> 1. Airspeed - 80 mph. 2. Mixture - I. C. O.. 3. Fuel Selector - Off. 4. Ignition Switch - Off. 5. Wing Flaps – As Required. 6. Master Switch - Off. <p><u>DURING FLIGHT</u></p> <ol style="list-style-type: none"> 1. Airspeed - 80 MPH. 2. Carb Heat - ON. 3. Primer - Locked. 4. Fuel Selector - Both. 5. Mixture - Rich. 6. Ignition Switch - Both. <p><u>FORCED LANDINGS</u> <u>WITHOUT POWER</u></p> <ol style="list-style-type: none"> 1. Airspeed - 75 MPH (flaps up) 70 MPH (flaps dn) 2. Mixture - I. C. O.. 3. Fuel Selector - Off. 4. Ignition Switch - Off. 5. Wing Flaps – As Required. 6. Master Switch - Off. 7. Doors - Unlatch. 8. Touchdown - Tail Low. 9. Brakes - Apply Heavily. 	<p><u>WITH POWER</u></p> <ol style="list-style-type: none"> 1. Airspeed - 70 MPH. 2. Wing Flaps - 20 Deg. 3. Field - Overfly/ Inspect 4. Avionics / Electrical - Off. 5. Wing Flaps - 40 Deg. (final) 6. Airspeed - 70 MPH. 7. Master Switch - Off. 8. Doors - Unlatch. 9. Touchdown - Tail Low. 10. Ignition Switch - Off. 11. Brakes - Apply Heavily. <p><u>DITCHING</u></p> <ol style="list-style-type: none"> 1. Radio – Transmit Mayday. 2. Heavy Objects - Secure/ Toss 3. Approach - Into High Winds. Parallel to Swells in light winds. 4. Wing Flaps - 40 Deg. 5. Power - 300’/ min @ 70 Mph. 6. Doors - Unlatch. 7. Touchdown – Level attitude @ 300’/ min. 8. Face - Cushion at Impact. 9. Aircraft - Evacuate.Flood Cabin if necessary. 10. Life Vests / Rafts - Inflate. 	<p><u>FIRES DURING START</u></p> <ol style="list-style-type: none"> 1. Cranking - Continue. <p><u>If Engine Starts</u></p> <ol style="list-style-type: none"> 2. Power - 1700 RPM (few min) 3. Engine - Shutdown <p>Inspect for damage.</p> <p><u>If Engine Fails to Start</u></p> <ol style="list-style-type: none"> 4. Cranking - Continue. 5. Fire Extinguisher - Obtain. 6. Engine - SECURE. <p>A. Master - Off. B. Ignition - Off. C. Fuel Selector - Off.</p> <ol style="list-style-type: none"> 7. Fire - Extinguish. 8. Fire Damage - Inspect. <p><u>ENGINE FIRE IN FLIGHT</u></p> <ol style="list-style-type: none"> 1. Mixture - I. C. O.. 2. Fuel Selector - Off. 3. Master Switch - Off. 4. Cabin Heat and Air - Off. (except wing root vents) 5. Airspeed - 120 MPH. (faster if needed) 6. Forced Landing - Execute. 	<p><u>ELECTRICAL FIRE IN FLIGHT</u></p> <ol style="list-style-type: none"> 1. Master Switch - Off. 2. All Other Switches - Off. (except ignition switch) 3. All Vents - Closed. 4. Fire Extinguisher - Activate. 5. Cabin - Ventilate. <p><u>If fire appears Out.</u></p> <ol style="list-style-type: none"> 6. Master Switch - On. 7. Circuit Breakers - Check for faulty circuit don’t reset. 8. Electrical Switches – <i>On one at a time with delay until short circuit is localized.</i> 9. Vents - Open as required. <p><u>CABIN FIRE</u></p> <ol style="list-style-type: none"> 1. Master Switch - Off. 2. Vents - Close. 3. Fire Extinguisher - Activate. 4. Cabin - Ventilate. 5. Land Aircraft as soon as possible to inspect for damage. <p><u>WING FIRE</u></p> <ol style="list-style-type: none"> 1. Nav Lights - Off. 2. Strobes - Off. 3. Pitot Heat - Off. 4. Side slip away from flames. <p><u>LANDING WITH A FLAT MAIN TIRE</u></p> <ol style="list-style-type: none"> 1. Wing Flaps - As desired. 2. Approach - Normal. 3. Touchdown - Good tire first. 	<p><u>ELECTRICAL MALFUNCTIONS OVER VOLTAGE LIGHT ON</u></p> <ol style="list-style-type: none"> 1. Master Switch - Off 2. Master Switch - On. 3. Over Voltage Light - Off. <p><i>If over voltage light remains on.</i></p> <ol style="list-style-type: none"> 4. Flight - Terminate as soon as practical. <p><u>AMMETER SHOWS DISCHARGE</u></p> <ol style="list-style-type: none"> 1. Alternator - Off. 2. Electrical Load - Reduce. 3. Flight - Terminate as soon as practical. <p><u>SPIN RECOVERY</u></p> <ol style="list-style-type: none"> 1. Power - Idle. 2. Ailerons - Neutral. 3. Rudder - Opposite. 4. Elevator - Forward. 5. Recover from dive. <p>C- 172M CHECKLIST CONSULT P. O. H. FOR DETAILED INFORMATION ABOUT THIS AIRCRAFT AND ITS PROCEDURES.</p>
--	--	---	--	---