

**BEFORE START**

Passenger Brief.....COMPLETE  
 Seats.....ADJUSTED  
 Seat Belts.....ON  
 Parking Brake.....ON  
 Fuel Shutoff Valves.....BOTH ON  
 Generator Master 1&2.....ON  
 Lights.....AS REQUIRED  
 Carb Heat.....OFF  
 Avionics Master.....OFF  
 Battery Master.....ON

**ENGINE START**

Throttle.....IDLE  
 Choke.....AS NEEDED  
 Fuel Pump.....ON  
 Ignition 1 & 2.....ON  
 Propeller Area.....CLEAR  
 Starter.....ENGAGE  
 Throttle.....2000 rpm  
 Oil Pressure.....CHECK

**AFTER START**

Fuel Pump.....OFF  
 Choke.....AS NEEDED  
 Generator Annunciator.....EXTINGUISH  
 Engine Gauges.....CHECK

**BEFORE TAXI**

Avionics Master.....ON  
 Aux. Power.....ON  
 Avionics.....SET/CHECK  
 Flight Inst.....SET/CHECK

**RUNUP**

Brakes.....SET  
 Circuit Breakers.....IN  
 Throttle.....4000 rpm  
 Engine Inst.....CHECK  
 Magnetos.....CHECK (300/120)  
 Carb Heat.....CHECK  
 Throttle.....2000 rpm

**BEFORE TAKEOFF**

Flight Controls.....FREE & CORRECT  
 Trim.....SET  
 Flaps.....SET  
 Aircraft Lights.....AS REQUIRED  
 Transponder.....ALT  
 Fuel Pump.....ON  
 Canopy.....CLOSED & LATCHED  
 Takeoff Briefing.....COMPLETE

**CLIMB**

Flaps.....UP  
 Lights.....AS REQUIRED  
 Traffic Watch.....ON

**CRUISE**

Cruise Power.....SET  
 Fuel Pump.....OFF  
 Lights.....AS REQUIRED

**DESCENT**

Fuel Shutoff Valves.....BOTH ON  
 Flight Inst.....SET/CHECK  
 Avionics.....SET  
 Lights.....AS REQUIRED  
 Carb Heat.....ON  
 Fuel Pump.....ON  
 Descent Power.....SET  
 Engine Inst.....CHECK  
 Approach Briefing.....COMPLETE

**LANDING**

Lights.....AS REQUIRED  
 Carb Heat.....ON  
 Fuel Pump.....ON  
 Downwind.....80 kts  
 Base.....70 kts, Flaps 15°  
 Final.....60 kts, Flaps 30°-40°  
 Threshold.....50-60 kts

**GO AROUND**

Throttle.....FULL  
 Carb Heat.....OFF  
 Flaps.....15°  
 Airspeed.....65 kts  
 Trim.....ADJUST

**AFTER LANDING**

Brake.....SET  
 Transponder.....STBY  
 Lights.....AS REQUIRED  
 Flaps.....UP  
 Carb Heat.....OFF  
 Fuel Pump.....OFF  
 Trim.....NEUTRAL

**SHUTDOWN**

Throttle.....IDLE  
 Brake.....SET  
 Traffic Watch.....OFF  
 Aux Power.....OFF  
 Avionics.....OFF  
 Battery Master.....OFF  
 Generator Master 1&2.....OFF  
 Magnetos.....OFF  
 All Switches.....OFF  
 Fuel Shutoff Valves.....BOTH OFF

**POST FLIGHT**

Magnetos.....VERIFY OFF  
 Flight Controls.....SECURE  
 Canopy.....SECURE  
 Exterior.....CHECK  
 Tires.....CHECK  
 Aircraft.....SECURE

Vso - 26

Vs - 39

Vr - 48

Vx - 55/60

Vy - 60/68

Vfe - 67

Va - 96

Vno - 110

Vne - 138

Vglide - 60/68

Crz. Climb: 75-80

Max X-Wind: 22

**KAWO Data**

CTAF 122.70 ASOS 135.625

Elev. 142ft

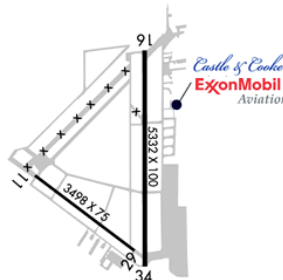
TPA 1200msl

RWY 34 &amp; 29

Left Trfc

RWY 16 &amp; 11

Right Trfc

**ENGINE FAILURE BEFORE Vr**

Throttle.....IDLE  
 Brakes.....AS REQUIRED  
 Ignition Switches.....OFF  
 Master switch.....OFF  
 Fuel selector valves.....OFF  
 Fuel pump.....OFF

**ENGINE FAILURE AFTER Vr**

Airspeed.....60 KTS (flaps 15°)  
 Place to Land.....STRAIGHT AHEAD  
 Flaps.....AS REQUIRED  
 Ignition Switches.....OFF  
 Master Switches.....OFF  
 Fuel Selector Valves.....OFF  
 Fuel Pump.....OFF

**ENGINE FAILURE IN-FLIGHT**

Airspeed..... 60 KTS  
 Carburetor Heat..... ON  
 Fuel Pump..... ON  
 Fuel Selector Valves..... BOTH ON  
 Throttle..... MIDDLE POSITION  
 Ignition switches..... CHECK ON  
 Master Switch..... START

**If the restart attempt fail:**

Procedure for power-off forced landing

**In case of an engine restart:**

Land as soon as possible

**FORCED LANDING - POWER OFF**

Airspeed..... 68 KIAS  
 Place to Land..... Establish  
 Fuel Selector Valves..... OFF  
 Fuel Pump..... OFF  
 Ignition Switches..... OFF  
 Safety Belts..... TIGHTEN  
 Canopy..... LOCKED  
 Squawk..... 7700  
 ATC..... NOTIFY

**Landing assured:**

Flaps..... AS NECESSARY  
 Master switch..... OFF  
 Touchdown Speed..... 48 KIAS

**ENGINE FIRE ON START**

Fuel Selector Valves..... OFF  
 Fuel Pump..... OFF  
 Ignition Switches..... OFF  
 Master switch..... OFF  
 Parking brake..... SET  
 Egress From Aircraft

**ENGINE FIRE IN-FLIGHT**

Cabin Heat..... OFF  
 Fuel Selector Valves..... OFF  
 Fuel Pump..... OFF  
 Throttle..... FULL IN  
 Cabin Vents..... OPEN  
 Ignition Switches..... OFF  
 Procedure for power-off forced landing

**CABIN FIRE IN-FLIGHT**

Cabin Heat..... OFF  
 Cabin vents..... OPEN  
 Canopy..... OPEN, if necessary  
 Master switch..... OFF  
 Land..... AS SOON AS POSSIBLE

**SPIN RECOVERY**

Throttle..... IDLE  
 Ailerons..... NEUTRAL  
 Rudder..... FULL OPPOSITE  
 Elevator..... FORWARD  
**HOLD THESE INPUTS UNTIL ROTATION STOPS, THEN:**  
 Rudder..... NEUTRAL  
 Ailerons..... AS REQUIRED  
 Elevator..... AS REQUIRED  
 Throttle..... AS REQUIRED

**BRS DEPLOYMENT**

MAX DEPLOYMENT SPEED..... 120kts  
 Activate BRS for..... MID-AIR COLLISION  
 STRUCTURAL FAILURE, ENGINE OUT OVER HOSTILE  
 TERRAIN, PILOT ICAPACITATION, STALL/SPIN ON  
 APPROACH  
 Engine..... SHUTDOWN  
 BRS Handle..... PULL HARD CONTINUOUSLY  
 Seatbelts..... TIGHTEN  
 Crash Position..... ASSUME

**IRREGULAR ENGINE RPM**

Throttle..... CHECK  
 Engine Gauges..... CHECK  
 Fuel Indicators..... CHECK  
 Carburetor Heat..... ON  
 Fuel Pump..... ON  
*If the engine continues to run irregularly:*  
 Fuel selector valve..... BOTH ON  
*If the engine continues to run irregularly:*  
 Land..... AS SOON AS POSSIBLE

**LOW FUEL PRESSURE**

Fuel Indicators..... CHECK  
 Fuel Pump..... ON  
 If the engine continues to run irregularly:  
 Fuel Selector Valves..... BOTH ON  
*If the fuel pressure continues to be low:*  
 Land..... AS SOON AS POSSIBLE

**LOW OIL PRESSURE**

Oil Temp..... CHECK  
*If the temperature tends to increase:*  
 Stable in Green Arc..... LAND AS SOON AS POSSIBLE  
 If Increasing..... LAND AS SOON AS POSSIBLE  
 .....PREPARE FOR POWER-OFF LANDING

**PRE-FLIGHT INSPECTION****CABIN PREP**

Hobbs & Tach time..... RECORD  
 A.R.R.O.W. papers..... ON BOARD  
 Control lock..... REMOVE & STOW  
 Avionics Master..... OFF  
 Battery Master Switch..... ON  
 Landing Lights..... ON & CHECK  
 Flaps..... DOWN  
 Battery Master..... OFF

**LEFT WING**

Fuel Cap..... CHECK QTY& SECURE  
 Pitot Tube..... REMOVE COVER  
 Leading Edge & Skin..... INSPECT  
 Wing Tip..... INSPECT  
 Fuel Vent..... INSPECT  
 Aileron..... INSPECT  
 Flap..... INSPECT  
 Left Main Gear..... INSPECT  
 Left Fuselage..... INSPECT

**EMPENAGE**

Stabilator..... INSPECT  
 Vertical Stab/Rudder..... INSPECT

**RIGHT WING**

Right Fuselage..... INSPECT  
 Right Main Gear..... INSPECT  
 Flap..... INSPECT  
 Aileron..... INSPECT  
 Fuel Vent..... INSPECT  
 Wing Tip..... INSPECT  
 Leading Edge & Skin..... INSPECT  
 Fuel Cap..... CHECK QTY& SECURE

**ENGINE/NOSE**

Nose Wheel Strut & Tire..... INSPECT  
 Gascolator..... DRAIN & CHECK  
 Prop & Spinner..... INSPECT  
 Oil Qty..... CHECK  
 Coolant Qty..... CHECK  
 Radiators..... UNOBSTRUCTED  
 Engine Mounts..... INSPECT  
 Intake, Exhaust, Coolant Systems..... INSPECT  
 Engine Cowlings..... SECURE