



# ANGEL AVIATION®

## CE-172-P NORMAL PROCEDURES

### BEFORE START

Preflight Inspection	<b>COMPLETE</b>
Passenger Briefing	<b>COMPLETE</b>
Fuel Selector Valve	<b>BOTH</b>
Lights	<b>OFF</b>
Circuit Breakers	<b>IN</b>
Avionics Master Switch	<b>OFF</b>

### STARTING ENGINE

Prime	<b>AS REQUIRED</b>
Mixture	<b>RICH</b>
Throttle	<b>1/8" OPEN</b>
Carburetor heat	<b>COLD/OFF</b>
Propeller Area	<b>CLEAR</b>
Master Switch	<b>ON</b>
Beacon Light	<b>ON</b>
Ignition Switch	<b>START</b>

### AFTER START

Throttle	<b>800-1000 RPM</b>
Oil Pressure	<b>GREEN ARC</b>
Avionics Power Switch	<b>ON</b>
NAV / TAXI Lights	<b>AS REQUIRED</b>
Mixture	<b>LEAN</b>
Flaps	<b>UP</b>

### BEFORE TAKEOFF

Doors & Windows	<b>CLOSED &amp; LOCKED</b>
Flight Controls	<b>FREE &amp; CORRECT</b>
Elevator / Rudder Trim	<b>SET for TAKEOFF</b>
Flight / Engine Instruments	<b>SET &amp; CHECK</b>
Mixture	<b>RICH</b>
Throttle	<b>1700 RPM</b>
Magnetos	<b>CHECK</b>
Carburetor Heat	<b>CHECK</b>
Suction	<b>CHECK</b>
Throttle	<b>800-1000 RPM</b>
Throttle Friction Lock	<b>ADJUST</b>
Flaps	<b>SET for TAKEOFF</b>
Avionics	<b>SET</b>
Takeoff/Emergency Brief	<b>COMPLETE</b>
Strobe Lights	<b>AS REQUIRED</b>

### CLIMB

Airspeed	<b>75-85 KIAS</b>
Throttle	<b>FULL OPEN</b>
Mixture	<b>RICH</b>

### CRUISE

Power	<b>2300 RPM</b>
Mixture	<b>LEAN</b>

### DESCENT

Fuel Selector Valve	<b>BOTH</b>
Power	<b>AS DESIRED</b>
Mixture	<b>ADJUST</b>
Carburetor Heat	<b>AS REQUIRED</b>

### BEFORE LANDING

Seats & Seat Belts	<b>SECURE</b>
Mixture	<b>RICH</b>
Carburetor Heat	<b>ON</b>

### AFTER LANDING

Carburetor Heat	<b>COLD/OFF</b>
Flaps	<b>UP</b>
Mixture	<b>LEAN</b>

### SHUTDOWN

Avionics Master Switch	<b>OFF</b>
Mixture	<b>IDLE CUT-OFF</b>
Lights	<b>OFF</b>
Ignition Switch	<b>OFF</b>
Master Switch	<b>OFF</b>
Control Lock	<b>INSTALL</b>

### V-SPEEDS

V <sub>R</sub>	<b>55 KIAS</b>
V <sub>X</sub>	<b>60 KIAS</b>
V <sub>Y</sub>	<b>76 KIAS</b>
V <sub>A</sub> @ 2400 lbs	<b>99 KIAS</b>
V <sub>A</sub> @ 2000 lbs	<b>92 KIAS</b>
V <sub>S</sub>	<b>44 KIAS</b>
V <sub>SO</sub>	<b>33 KIAS</b>
V <sub>FE</sub>	<b>85 KIAS</b>
V <sub>NO</sub>	<b>127 KIAS</b>
V <sub>NE</sub>	<b>158 KIAS</b>
Best Glide	<b>65 KIAS</b>
Max Demonstrated X-wind	<b>15 KNOTS</b>

### MAGNETO DROP LIMITATIONS

125 RPM	<b>EACH MAGNETO</b>
50 RPM	<b>DIFFERENTIAL</b>

*Before using this checklist, the pilot shall become familiar with the POH/AFM (Pilot Operating Handbook/Aircraft Flight Manual) and thoroughly understand the required procedures for aircraft operation.*

# CE-172-P EMERGENCY PROCEDURES

## ENGINE FIRE DURING START

Cranking **CONTINUE**

### IF ENGINE STARTS:

Power **1700 RPM For Few Minutes**

Engine **SHUTDOWN/Inspect**

### IF ENGINE FAILS TO START:

Throttle **FULL OPEN**

Mixture **IDLE CUT-OFF**

Cranking **CONTINUE**

Fire Extinguisher **OBTAIN**

### ENGINE SECURE:

Master Switch **OFF**

Ignition Switch **OFF**

Fuel Selector **OFF**

Fire **EXTINGUISH**

## ENGINE FIRE IN FLIGHT

Mixture **IDLE CUT-OFF**

Fuel Selector Valve **OFF**

Master Switch **OFF**

Cabin Heat and Air **OFF**

Airspeed **100 KIAS**

Forced Landing **EXECUTE**

## CABIN FIRE

Master Switch **OFF**

Vents/Cabin Air/Heat **CLOSED**

Fire Extinguisher **ACTIVATE (If Flames Are Present)**

### ASCERTAIN FIRE HAS BEEN EXTINGUISHED:

Vents/Cabin Air/Heat **OPEN**

Land **AS SOON AS POSSIBLE**

## AMMETER - EXCESSIVE CHARGE

Alternator **OFF**

Alternator Circuit Breaker **PULL**

Nonessential Electrical Equipment **OFF**

Flight **Terminate As Soon AS Practical**

## AMMETER - DISCHARGE

Avionics Master Switch **OFF**

Alternator Circuit Breaker **CHECK IN**

Master Switch **OFF**

Master Switch **ON**

Low-Voltage Light **CHECK OFF**

Avionics Master Switch **ON**

### IF LOW-VOLTAGE LIGHT ILLUMINATES AGAIN:

Alternator **OFF**

Nonessential Electrical Equipment **OFF**  
Flight **Terminate As Soon As Practical**

## ENGINE FAILURE DURING TAKOFF

Throttle **IDLE**

Brakes **APPLY**

Wing Flaps **RETRACT**

Mixture **IDLE CUT-OFF**

Ignition Switch **OFF**

Master Switch **OFF**

## ENGINE FAILURE AFTER TAKEOFF

Airspeed **65 KIAS (Flaps Up)**

**60 KIAS (Flaps Down)**

Mixture **IDLE CUT-OFF**

Fuel Selector Valve **OFF**

Ignition Switch **OFF**

Wing Flaps **AS REQUIRED**

Master Switch **OFF**

## ENGINE FAILURE DURING FLIGHT

Airspeed **65 KIAS**

Carburetor Heat **ON**

Fuel Selector Valve **BOTH**

Mixture **RICH**

Ignition Switch **BOTH or START**

Primer **IN & LOCKED**

## LANDING WITHOUT POWER

Airspeed **65 KIAS (Flaps Up)**

**60 KIAS (Flaps Down)**

Mixture **IDLE CUT-OFF**

Fuel Selector Valve **OFF**

Ignition Switch **OFF**

Wing Flaps **AS REQUIRED**

Master Switch **OFF**

Doors **UNLATCH**

Touchdown **SLIGHTLY TAIL LOW**

Brakes **APPLY HEAVILY**

## PRECAUTIONARY LANDING

Wing Flaps **20°**

Airspeed **60 KIAS**

Avionics & Electrical Switches **OFF**

Wing Flaps **30°**

Master Switch **OFF**

Doors **UNLATCH**

Touchdown **SLIGHTLY TAIL LOW**

Ignition Switch **OFF**

Brakes **APPLY HEAVILY**