# LIMITATIONS

#### <u>APPROVED MANOEUVRES – UTILITY CATEGORY</u>

1 Chandelles .....109 mph

2 Lazy Eights ......109 mph

3 Steep Turns ......109 mph

4 Stalls (Except Whip Stalls).....USE SLOW DECELETATION

#### FORBIDDEN MANOEUVRE - HB-CVZ

1 Spins

# FIRE ON GROUND

### **DURING ENGINE START**

1 Cranking......CONTINUE

### **IF ENGINE STARTS**

3 Engine.....SHUT DOWN & INSPECT

### **IF ENGINE FAILS TO START**

4 Throttle FULL OPEN

5 Mixture .....IDLE CUT-OFF

6 Fuel Shutoff Valve .....OFF

7 Engine......CONTINUE CRANKING (2 – 3 min.)

8 Fire Extinguisher......OBTAIN / GROUND ATTENDANTS

9 Engine.....SHUT DOWN

a) Master Switch.....OFF

b) Ignition Switch.....OFF

10 Parking Brake ......RELEASE

11 Airplane.....EVACUATE

12 Fire.....EXTINGUISH

13 Fire Damage ......INSPECT FOR DAMAGE



# FIRE IN FLIGHT

### **ENGINE FIRE**

	1	Mixture	.IDLE	<b>CUT-OFF</b>
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- 2 Fuel Shutoff Valve ......OFF
- 3 Ignition Switch.....OFF
- 4 Throttle.....FULL OPEN
- 5 Cabin Air & Heat (except wing root vents!)..CLOSED
- 6 Airspeed......100 mph

If fire is not extinguished, increase glide speed to find an airspeed which will provide an incombustible mixture! (≥115 mph)

6 Emergency Landing ......EXECUTE

### **ELECTRICAL FIRE IN FLIGHT (Smoke in the cabin!)**

- 1 Master Switch ......OFF
- 2 Avionics Master Switch ......OFF
- 3 Vents & Cabin Air & Cabin Heat ......CLOSED
- 4 Fire Extinguisher (if available).....ACTIVATE
- 5 Cabin .....VENTILATE

If fire appears out and electrical power is necessary for continuance of flight!

- 6 All Individual Radio Switches ......OFF
- 7 All Other Electrical Switches (except Ignition Switch).....OFF
- 8 Master Switch .....ON

DO NOT RESET!

10 Radios & Electrical Switches.....ONE AT A TIME, WITH DELAY

AFTER EACH, UNTIL FAULTY

CIRCUIT IS LOCALIZED

When it is ascertained that fire is completely extinguished!

- 11 Vents & Cabin Air & Cabin Heat ......OPEN AS REQUIRED
- 12 Precautionary Landing ......ASAP



wind milling!)

# ENGINE POWER LOSS IN FLIGHT

#### **ENGINE CHECK (Restart Procedure)**

1	Airspeed	65 mph (best glide)
2	Carburettor Heat	ON
3	Mixture	RICH
4	Fuel Shutoff Valve	ON
5	Ignition Switch	BOTH (& START if propeller is not

#### IF POWER IS RESTORED

6	Carburettor Heat	AS REQUIRED
7	Mixture	AS REQUIRED

### IF POWER IS NOT RESTORED

8	Airspeed	65 mph (best glide)
9	Emergency Landing	EXECUTE

# **EMERGENCY LANDING**

Trim for best glide speed 65 mph & Flaps Up Locate suitable field **MAYDAY CALL** 

Transponder 7700 / ALT

When the landing field can easily be reached

Seat Belts	TIGHTEN
Fuel Shutoff Valve	OFF
Mixture	IDLE CUT-OFF
Throttle	IDLE
Ignition Switch	OFF
Flaps	FULL DOWN (for touchdown)
Master Switch	OFF
Doors	UNLATCH
Speed	SLIGHTLY TAIL LOW
Brakes	APPLY HEAVILY
	Seat Belts Fuel Shutoff Valve Mixture Throttle Ignition Switch Flaps Master Switch Doors Speed Brakes



# **ALTERNATOR FAILURE**

### **AMMETER SHOWS EXESSIVE RATE OF CHARGE (Full Scale Deflection)**

- 1 Alternator Switch ......OFF
- 2 Alternator Circuit Breaker ......PULL
- 3 Nonessential Electrical Equipment .....OFF
- 4 Flight ......TERMINATE (ASAP)

#### **LOW-VOLTAGE LIGHT ILLUMINATES DURING FLIGHT (Ammeter Discharges)**

- 1 Avionics Master Switch ......OFF
- 2 Alternator Circuit Breaker ......CHECK IN
- 3 Master Switch ......OFF (both sides)
- 4 Master Switch .....ON
- 5 Low-Voltage Light......CHECK OFF (Ammeter charging)
- 6 Avionics Master Switch .....ON

### if low-voltage light illuminates again (still no charge)

- 7 Alternator Switch ......OFF
- 8 Nonessential Radio & Electrical Equipment OFF
- 9 Flight ......TERMINATE (ASAP)

# RADIO FAILURE

#### NO RADIO CONTACT WITH TWR / ATC

- 1 Radio.....ON
- 2 Volume.....TEST USING SQUELCH
- 3 Headset / Mike Plugs ......PLUGED IN

#### if still no contact

- 5 Communication Failure Procedure ......APPLY AS NECESSARY

#### Air Traffic Control Tower Light Gun Signals

Colour and type of signal	Aircraft on the ground	Aircraft in flight 7
Steady Green	Cleared for take off	Cleared to land
Flashing Green	Cleared for taxi	Return for landing (to be followed by
		steady green at the proper time)
Steady Red	Stop	Give way to other aircraft and continue
		circling
Flashing Red	Taxi clear of the runway in use	Airport unsafe - Do Not Land
Flashing White	Return to starting point on airport	Not applicable
Alternating Red and Green	Exercise extreme caution	Exercise extreme caution

