



====> BY HEART ITEM !

ENGINE POWER LOSS IN FLIGHT

Best glide speed..... fly, trim **70 MPH**

Landing site..... determine

● If no time / low altitude:
PREPARE FOR POWER OFF LANDING!

● if time / altitude permits:
Fuel selector..... switch tank
Mixture control..... rich
Carburetor heat..... on
Engine instruments..... check for reason
Magnetos..... both / lh / rh
Primer..... locked
Fuel quantity..... lh / rh checked
Throttle / Mixture control..... different settings

✦ If power restored:
Carburetor heat..... off

✦ If power not restored:
PREPARE FOR POWER OFF LANDING!

POWER OFF LANDING

EMERGENCY CALL 121.500 „MAYDAY MAYDAY MAYDAY, HB-XXX...“

Seatbelts / cabin / passenger..... fastened / secured

Fuel selector..... off

Magnetos..... both off

Battery switch..... off (no stall warning!)

Mixture control..... idle cutoff

When landing site can easily be reached:

Flaps..... 50° (2)

Speed..... final approach (55 MPH)

ELT..... consider on

Door..... consider open / closed

ENGINE POWER LOSS DURING TAKEOFF

Fly the aircraft..... Nose down, safe speed immediately:

Flaps 25° (1): **55 MPH** Flaps 0° (up): **60 MPH**

At low altitude..... No turns

Flaps..... As required, if possible flaps 50° (2)



====> BY HEART ITEM !

FIRE INFLIGHT

Source of fire..... identify

● **Electrical fire:**

Batteryswitch..... off

Vents / window..... open

Cabinheat..... off

Land as soon as possible!

● **Engine fire:**

Fuel selector..... off

Throttle..... idle

Mixture control..... idle cutoff

Cabinheat..... off

PREPARE FOR POWER OFF LANDING!

FIRE DURING ENGINE START

Starter..... crank

Fuel selector..... off

Mixture control..... idle cutoff

Throttle..... full open

Battery switch..... off

Passenger / Pilot..... evacuate

SPIN (VRILLE) RECOVERY

Throttle..... idle

Ailerons..... neutral

Rudder..... full opposite direction

Elevator..... 1/2 forward

When rotation stops:

Rudder..... neutral

Elevator..... recover attitude

LOSS OF OIL PRESSURE

Land as soon as possible and investigate cause.

PREPARE FOR POWER OFF LANDING!



HIGH OIL TEMPERATURE

Land as soon as possible and investigate cause.

PREPARE FOR POWER OFF LANDING!

ENGINE ROUGHNESS

Carburator heat..... full on

- If engine getting smooth..... carburator heat off
- if roghness continues more than 60 sec.:
 - Carburator heat..... off
 - Mixture control..... try different settings
 - Fuel selector..... change tanks
 - engine instruments..... check for reason
 - left magneto..... off, then on
 - right magneto..... off, then on: use best magneto
 - primer..... locked

PREPARE FOR PRECAUTIONARY OR POWER OFF LANDING!

ALTERNATOR FAILURE

Ampèremeter output..... check (switch on consumer)

If ampèremeter **shows zero output:** Go to **1**

If ampèremeter **shows some output:** Go to **2**

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- 1:** Electrical load..... reduce to minimum
 Alternator circuit breaker.....check and reset (only 1 x)
 Overvoltage circuit breaker...pull, then reset (only 1 x)
- If no success:
 - Electrical load.....reduce to minimum
 - Land as soon as practical. **The battery is the only remaining source of electrical power.**
 - If successful:
 - Continue flight and check system after landing
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- 2:** Check circuit breakers of affected systems, reset only 1 x
- If successful:
 - Continue flight and check system after landing
 - If no success:
 - Switch off affected system and evaluate if destination can be reached **or precautionary landing is necessary.**