

- ELECTRICAL POWER SUPPLY SYSTEM MALFUNCTIONS -

- AMMETER SHOWS EXCESSIVE RATE OF CHARGE (Full Scale Deflection) -

Alternator OFF
 Alternator Circuit Breaker PULL
 Nonessential Electrical Equipment OFF
 Flight LAND ASAP

- LOW-VOLT LIGHT ILLUMINATES DURING FLIGHT (Ammeter shows discharge) -

Avionics Power Switch OFF
 Alternator Circuit Breaker CHECK IN
 Master Switch OFF
 Master Switch OFF
 Low-Voltage Light CHECK OFF
 Avionics Power Switch ON

If low-voltage light illuminates again

Alternator OFF
 Nonessential Radio & Electrical Equip OFF
 Flight LAND ASAP

NOTE: Illumination of low-voltage light may occur during low RPM conditions with an electrical load on the system such as during a low RPM taxi. Under these conditions, the light will go out at higher RPM. The master switch need not be recycled since an over-voltage condition has not occurred to de-activate the alternator system.

- STATIC SOURCE BLOCKAGE -

Static Pressure Alt Source Valve FULL ON
 Cabin Heat & Air ON
 Vents CLOSED
 Airspeed CONSULT CALIBRATION TABLES

- SPIN RECOVERY -

Power IDLE
 Ailerons NEUTRAL
 Rudder FULL OPPOSITE
 Elevator BRISKLY FORWARD
Return to desired altitude, attitude, airspeed, & heading

Vr: 55 kts
Vx: 64 kts
Vy: 72 kts
Vg: 65 kts
Va @2400lbs: 99 kts
Va @1600lbs: 82 kts
V _{S0} : 33 kts
V _{S1} : 44 kts
Vno: 127 kts
Vne: 158 kts



CESSNA 172P 160HP
N99243
EMERGENCY PROCEDURES CHECKLIST

- ENGINE FAILURES -

- DURING TAKEOFF ROLL -

Throttle IDLE
 Brakes APPLY
 Wing Flaps RETRACT
 Mixture IDLE CUTOFF
 Ignition Switch OFF
 Master Switch OFF

- IMMEDIATELY AFTER TAKEOFF -

Airspeed 65 KIAS (flaps up)
 60 KIAS (flaps down)
 Mixture IDLE CUTOFF
 Fuel Selector Valve OFF
 Ignition Switch OFF
 Wing Flaps AS REQUIRED
 Master Switch OFF

- DURING FLIGHT (RESTART PROCEDURES) -

Airspeed 65 KIAS
 Carburetor Heat ON
 Fuel Selector Valve BOTH
 Mixture RICH (or set for alt)
 Ignition Switch BOTH
 *(or start if prop is stopped)*
 Primer IN & LOCKED

- FORCED LANDINGS -

- EMERGENCY LANDING WITHOUT ENGINE POWER -

Seats, Seat Belts/Harness SECURE
 Airspeed 65 KIAS (flaps up)
 60 KIAS (flaps down)
 Mixture IDLE CUTOFF
 Fuel Selector Valve BOTH
 Ignition Switch OFF
 Wing Flaps AS REQ. (30° recommended)
 Master Switch OFF
 Doors UNLATCH prior to touchdown
 Touchdown SLIGHTLY TAIL LOW
 Brakes APPLY HEAVILY

- PRECAUTIONARY LANDING WITH ENGINE POWER -

Seats, Seat Belts/Harness SECURE
 Wing Flaps 20°
 Airspeed 60 KIAS
 Selected Field FLY OVER
 *noting terrain & obstructions*
retract flaps upon reaching safe altitude
& airspeed
 Avionics Power Switch OFF
 Electrical Switches OFF
 Wing Flaps 30° (on final app)
 Airspeed 60 KIAS
 Master Switch OFF
 Doors UNLATCH prior to touchdown
 Touchdown SLIGHTLY TAIL LOW
 Ignition Switch OFF
 Brakes APPLY HEAVILY

- FIRES -

- DURING START ON GROUND -

Cranking CONTINUE
. . . to get a start which would suck the flames and accumulated fuel through the carburetor and into the engine

If engine starts:

Power 1700 RPM for a few mins
 Engine SHUTDOWN & inspect for damage

If engine fails to start:

Throttle FULL OPEN
 Mixture IDLE CUTOFF
 Cranking CONTINUE
 Fire Extinguisher OBTAIN
 Engine SECURE
 Master Switch OFF
 Ignition Switch OFF
 Fuel Selector Valve OFF

Fire EXTINGUISH
 Fire Damage INSPECT

- ENGINE FIRE IN FLIGHT -

Mixture IDLE CUTOFF
 Fuel Selector OFF
 Master Switch OFF
 Cabin Heat & Air . . OFF (except overhead vents)
 Airspeed 100 KIAS
. if fire isn't extinguished, increase speed to find airspeed which will provide an incombustible mixture
 Forced Landing EXECUTE

- CABIN FIRE -

Master Switch OFF
 Vents/Cabin Air & Heat CLOSED
 Fire Extinguisher ACTIVATE
 When Fire Extinguished VENTILATE
 Land ASAP

- FIRES -

- ELECTRICAL FIRE IN FLIGHT -

Master Switch OFF
 Vents/Cabin Air & Heat CLOSED
 Fire Extinguisher ACTIVATE
 When Fire Extinguished VENTILATE
 Avionics Power Switch OFF
 All Other Switches (except ignition) OFF
 Master Switch ON
 Circuit Breakers CHECK (do NOT reset)
 Radio Switches OFF
 Avionics Power Switch ON
 Radio/Electrical Switches ON
 *one at a time, with delay after each until short circuit is localized*

- WING FIRE -

Landing/Taxi Light OFF
 Pitot Heat Switch OFF
 Navigation Light OFF
 Strobe Light OFF
Perform sideslip to keep flames away from fuel tank and cabin. Land ASAP. Use flaps only as required for final approach and touchdown.

- CLEANING FOULED SPARK PLUGS -

Magnetos BOTH
 Throttle 1700 RPM
 Mixture LEAN
Run at lean/hot mixture for 30-60 seconds. Test magnetos again. If drop is still too high, cancel flight and squawk issue.