

- 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 ON
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: 52 kts, 60 mph
Vx: 59 kts, 69 mph
Vy: 71 kts, 82 mph
Vg: 65 kts, 75 mph
Va @2300lbs: 106 kts, 122 mph
Va @2000lbs: 99 kts, 114 mph
Vs0: 43 kts, 49 mph
Vs1: 50 kts, 57 mph
Vno: 122 kts, 140 mph
Vne: 151 kts, 174 mph

SPRINGS AVIATION

CESSNA 172L 150HP
N2830Q
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 60 – 70 KTS (flaps up)
. 56 – 65 KTS (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 KTS
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 60 – 70 KTS (flaps up)
 56 – 65 KTS (flaps down)
 Mixture IDLE CUTOFF
 Fuel Selector Valve OFF
 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 KTS
 Selected Field FLY OVER
 *noting terrain & obstructions retract flaps upon reaching safe altitude & airspeed*
 Avionics Power Switch OFF
 Electrical Switches OFF
 Wing Flaps 40° (on final app)
 Airspeed 60 KTS
 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 92 KTS
 *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.*