

3.3k Electrical Failures (3.27)**Generator Inoperative**

If the generator fails (zero amps or LOW BUS VOLTAGE light illuminated or GEN annunciator light not illuminated), proceed as follows:

Note

Anytime total tie bus voltage is below 25 vdc, The LOW BUS VOLTAGE annunciator will illuminate.

Verify failure.....CHECK Ammeter
Generator Switch.....OFF
Starter/GEN Circuit Breaker(s).....CHECK and RESET
GEN Circuit Breakers (Tie Bus), if equipped.....
.....CHECK and RESET

Note

Some airplanes are equipped with dual GEN circuit breakers.

Electrical Load (If CB's were opened).....REDUCE
Generator Reset Switch (If Equipped).....PUSH to Reset
Generator Switch.....ON

If power not restored:

Generator SwitchOFF
Alternator Switch.....ON
Ammeter.....MONITOR and maintain below 70 amp
.....or 50 amp if equipped with B&C Alternator

Warning

When using the alternator, use of deicing equipment, particularly windshield or propeller heat, may be limited. Immediate action should be taken to avoid or exit icing conditions. Under no circumstances may the total electrical load exceed 70 (50) amps. Maintain engine speed above 75% N_G or reduce electrical load to maintain voltage above 24 volts.

3.4o PROPELLER OVERSPEED (3.29)

Throttle	RETARD
Oil Pressure	CHECK
Propeller Control	FULL DECREASE rpm, then set if any control available
Airspeed	REDUCE
Throttle	AS REQUIRED to remain below 2500 rpm

Land as soon as practical and investigate cause of overspeed.

3.4p EMERGENCY LANDING GEAR EXTENSION (3.31)

If emergency gear extension is required due to electrical power failure, the gear position indicator lights will not illuminate.

Prior to emergency extension procedure:

Battery Master Switch	CHECK ON
Circuit Breakers	CHECK
DAY/NIGHT Dimming Switch (in daytime)	DAY

If landing gear does not check down and locked:

Airspeed	BELOW 90 KIAS
Hydraulic Pump Power Circuit Breaker (25 amp)	PULL
Landing Gear Selector	DOWN
Emergency Gear Extend Control	PULL (while fishtailing airplane)

CAUTION

The Emergency Gear Extension procedure will require the pilot to pull the emergency gear extend control knob through a region of high resistance (up to 25 lbs.) in order to reach the stop and extend the landing gear.