**Piper Arrow 747JS Emergency Checklist**

**ENGINE FIRE DURING START**

Starter ……………..…………… Crank engine

Mixture ……………..…………… Idle cut-off

Throttle ……………..…………… Open

Electric fuel pump …………… Off

Fuel selector ……….…………. Off

If fire continues …..…………. Abandon

**ENGINE POWER LOSS DURING TAKEOFF**

If sufficient runway remains for a normal landing: Leave gear down and land straight ahead.

If area ahead is rough, or if it is necessary to clear obstructions:

Gear selector switch ……………………….Up

If sufficient altitude has been gained to attempt a restart:

Maintain safe airspeed

Fuel selector……… Switch to tank containing fuel

Electric fuel pump ..…………. On

Mixture ……………..…………… Rich

Alternate air …………………… Open

Emergency gear lever ……… As required

If power is not regained: proceed with power off landing

**ENGINE POWER LOSS IN FLIGHT**

Fuel selector …….. Switch to tank containing fuel

Electric fuel pump ……………. On

Mixture …………… Rich

Alternate air ……….…….…………….Open

Engine gauges……. Check for indication of cause of power loss

If no fuel pressure is indicated: check tank selector position to be sure it is on a tank containing fuel

When power is restored:

Alternate air …………………… Closed

Electric fuel pump …………… Off

If power is not restored: prepare for power off landing

Airspeed …………………………. 79 KIAS

**POWER OFF LANDING**

Airspeed …………………………. 79 KIAS

Suitable field ………………….. Locate

Spiral pattern …………………. Establish

1000’ above field at downwind position for normal landing approach

When field can easily be reached, slow to 72 KIAS for shortest landing

Touchdown…..Lowest possible airspeed & full flaps

When committed to landing:

Ignition …………………………. Off

Master switch ………………… Off

Fuel selector …………………... Off

Mixture …………………………. Idle cut off

Seat belt & harness …………. Secure

**FIRE IN FLIGHT**

**Electrical fire (smoke in cabin):**

Master switch ………………… Off

Vents …………………………….. Open

Cabin heat ……………………… Off

Land ……………………………… ASAP

**Engine fire:**

Fuel selector …………………. Closed

Throttle ………………………… Closed

Mixture ………………………… Idle cut off

Electric fuel pump …………. Off

Heater & defroster .…………. Off

Proceed with power off landing procedure

**LOSS OF OIL PRESSURE**

Land …………………………. ASAP

Investigate cause & Prepare for power off landing

**LOSS OF FUEL PRESSURE**

Electric fuel pump …………… On

Fuel selector …………………. Check on full tank

**HIGH OIL TEMPERATURE**

Land at nearest airport and investigate the problem.

Prepare for power off landing.

**ALTERNATOR FAILURE**

Electric load …………………… Reduce

Alternator circuit breakers…Check

Alt switch ………… OFF for 1 second, then ON

If no output:

Alt switch ……………………… Off

Reduce electrical load and land ASAP

If battery is fully discharged, the gear will have to be lowered using the emergency gear extension procedure. Position lights will not illuminate.

**PROPELLER OVERSPEED**

Throttle …………………………. Retard

Oil pressure ………………….. Check

Prop control …………Full DECREASE rpm, then see if any control available

Airspeed ……………………….. Reduce

Throttle ……As required to remain below 2700 rpm

**EMERGENCY LANDING GEAR EXTENSION**

Master switch ………………... On

Circuit breakers …………….. Check

Day/Night switch …………... Day (in daytime)

Gear indicator bulbs ………. Check

If landing gear does not check down and locked:

Airspeed ……………………….. Below 87 KIAS

Landing gear selector …….. Down

Emergency gear lever …….. Emergency down

 (while fishtailing airplane)

If all electrical power has been lost, the landing

gear must be extended using the above procedures.

The gear position indicator lights will not be

illuminated.

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