



# Piper PA28-161 Emergency Procedures

## Engine Failure-Takeoff

Airspeed ..... Maintain Safe  
Land ..... Straight Ahead  
*If Sufficient altitude has been gained  
attempt to restart:*  
Airspeed ..... 73 Best Glide  
Fuel Selector ..... Switch Tanks  
Magnetos ..... Both  
Fuel Pump ..... On  
Primer ..... In/Locked  
**Mixture ..... Rich**  
Carburetor Heat ..... On  
*If power is **not** restored, proceed with  
**POWER OFF LANDING***

## Engine Failure-Flight

Fuel Selector ..... Switch Tanks  
Fuel Pump ..... On  
**Mixture ..... Rich**  
Carburetor Heat ..... On  
Magnetos ..... Both  
Engine Gauges ..... Check  
Primer ..... In/Locked  
*If power is **not** restored proceed with  
**POWER OFF LANDING***  
*If power is restored:*  
Carburetor Heat ..... Off  
Fuel Pump ..... Off  
*Land As Soon as Practical*

## Power Off Landing

Airspeed ..... 73 KIAS  
Place to Land ..... Locate  
Passengers ..... Prepare  
*If time and altitude permit:*  
Transponder ..... 7700  
Radios ..... Transmit 121.5  
ELT ..... On  
*When committed to landing:*  
Throttle ..... Idle  
**Mixture ..... Idle Cut-Off**  
Magnetos ..... Off  
Master Switch ..... Off  
Fuel Selector ..... Off  
Belts/Shoulder Harness ..... Secure  
Approach Speed ..... 63 KIAS

## Engine Fire-Start

Starter ..... Continue Cranking  
*If engine starts:*  
Power ..... 1,700 RPM  
Engine ..... Shutdown and Have Inspected  
*If engine does not start:*  
Starter ..... Continue Cranking  
**Mixture ..... Idle Cut-Off**  
Throttle ..... Full Open  
Fuel Selector ..... Off  
Magnetos ..... Off  
Master Switch ..... Off  
  
*If fire continues;*  
**EVACUATE AIRCRAFT** and extinguish  
fire

## Engine Fire-Flight

Fuel Selector ..... Off  
Throttle ..... Idle  
**Mixture ..... Idle Cut-Off**  
Fuel Pump ..... Off  
Heater/Defroster ..... Off  
*If fire continues proceed with:*  
**EMERGENCY DESCENT, Line 4**  
  
*If fire appears out proceed with:*  
**POWER OFF LANDING**

## Electrical Fire

Master Switch ..... Off  
Radio Master ..... Off  
Fresh Air Vents ..... Open  
Heat/Defroster ..... Off  
*If fire appears out and electrical power is  
necessary:*  
Batt/Alt Master Switch ..... On  
Circuit Breakers ..... DO NOT RESET  
Radio/Electrical Equip--ON one at a time  
*Land As Soon as Practical*

## Emergency Descent

1. Throttle ..... Idle
2. Fuel Pump ..... On
3. **Mixture ..... Rich**
4. Bank ..... 30° – 45°  
Rollout ..... At 126 KIAS  
or at pattern altitude

*Proceed with **POWER OFF LANDING***

## Carburetor Icing

Carburetor Heat ..... On  
**Mixture ..... Adjust for Smoothness**  
  
**Engine Roughness**  
Carburetor Heat ..... On  
*If roughness continues after one min:*  
Carburetor Heat ..... Off  
**Mixture ..... Adjust for Smoothness**  
Fuel Pump ..... On  
Fuel Selector ..... Switch Tanks  
Engine Gauges ..... Check  
Magneto Switch ..... “L” then “R”  
then “BOTH”

*If operation is satisfactory on either one,  
continue on that magneto, at reduced  
power and full “RICH” mixture, to  
nearest airport.*

*Prepare for **POWER OFF LANDING***

## Loss of Oil Pressure

Engine Power ..... Reduce  
Oil Temp ..... Monitor  
*Land As Soon as Practical*  
*Prepare for **POWER OFF LANDING***

## Loss of Fuel Pressure

Electric Fuel Pump ..... On  
Fuel Selector ..... Switch Tanks

## High Oil Temperature

**Mixture ..... Rich**  
Throttle ..... Reduce  
Oil Pressure ..... Monitor  
Oil Temp ..... Monitor  
*Land As Soon as Practical*  
*Prepare for **POWER OFF LANDING***

## Electrical Failure

*ALT annunciator light illuminated:*  
Ammeter ..... Check Amps 0  
ALT Switch ..... Off  
Electrical Load ..... Reduce  
ALT Circuit Breaker ..... Check/Reset  
ALT Switch ..... On

*Power not restored:*  
ALT Switch ..... Off  
Electrical Load ..... Reduce Load  
*Land As Soon as Practical*

## Electrical Overload

BATT Master Switch ..... Off  
ALT Switch ..... On  
  
*If Amps are reduced:*  
Electrical Load ..... Reduce  
Land ..... As Soon As Practical  
*If Amps are not reduced:*  
ALT Switch ..... Off  
BATT Switch ..... As Required  
*Land As Soon as Practical*

## Open Door

Airspeed ..... Reduce 89 KIAS  
Cabin Vents ..... Close  
Storm Window ..... Open  
Door Latches ..... Latch Side,  
then Top

## Spin Recovery

Throttle ..... Idle  
Ailerons ..... Neutral  
Rudder ..... FULL OPPOSITE  
(to the direction of rotation)  
Yoke ..... FULL FORWARD  
Rudder ..... NEUTRAL  
(when rotation stops)  
Yoke ..... AS REQUIRED  
Throttle ..... AS REQUIRED

