EMERGENCY PROCEDURES PIPER PA28/161 WARRIOR II (AFM 13.08.1982)

ENGINE FIRE DURING START

- STARTER	CRANK ENGINE	
- MIXTURE	IDLE CUT-OFF	
- THROTTLE	OPEN	
- ELECTRIC FUEL PUMP	OFF	
- FUEL SELECTOR	OFF	
abandon aircraft if fire continues		

ENGINE POWER LOSS DURING TAKEOFF

▶ if sufficient runway	Land straight ahead
▶ if insufficient runway	
- SAFE AIRSPEED	Maintain
- FLY to avoid obstructions	Only shallow turn
- FLAPS	as situation requires
▶ if sufficient altitude to attempt restar	<u>t</u>
- SAFE AIRSPEED	Maintain
- FUEL SELECTOR	SWITCH to tank containing fuel
- ELECTRIC FUEL PUMP	Check ON
- MIXTURE	Check RICH
- CARBURETOR HEATER	ON
- PRIMER	Locked
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	
- CARBURETOR HEAT	ON	
- ENGINE GAUGES	Check for indication of cause	
- PRIMER	Check LOCKED	
if no fuel pressure indicated check tank selector position		
to be sure it is on a tank containing fuel		
when power is restored		
- CARBURETOR HEAT	OFF	
- ELECTRIC FUEL PUMP	OFF	
▶ if power is not restored prepare for P	OWER OFF LANDING	

Trim for 73 KIAS

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POWER OFF LANDING		
Locate suitable airfield.		
Establish spiral pattern.		
1000ft above airfield at downwind posit	ion for normal landing approach.	
When field can easily be reached slow t	o 63 KIAS for shortest landing.	
Touchdown should normally be made at	lowest possible airspeed with full flaps.	
► when committed to landing		
- IGNITION	OFF	
- MASTER SWITCH	OFF	
- FUEL SELECTOR	OFF	
- MIXTURE	IDLE CUT-OFF	
- SEAT BELTS AND HARNESSES	Tight	
FIRE IN FLIGHT		
Source of fire	check	
ELECTRICAL FIRE (smoke in cabin)		
- MASTER SWITCH	OFF	
- VENTS	OPEN	
- CABIN HEAT	OFF	
Land as soon as practical (ASAP)		
ENGINE FIRE		
- FUEL SELECTOR	OFF	
- THROTTLE	CLOSED	
- MIXTURE	IDLE CUT-OFF	
- ELECTRIC FUEL PUMP	Check OFF	
- HEATER	OFF	
- DEFROSTER	OFF	
proceed with POWER OFF LANDING procedure		

LOSS OF OIL PRESSURE

Land as soon as possible (ASAP) and 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

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ELECTRICAL FAILURES	
ALT annunciator light illuminated	
- AMMETER	Check to verify inop. Alt.
if AMMETER shows zero	
- ALT SWITCH	OFF
reduce electrical loads to mini	num
- ALT CIRCUIT BREAKER	check and RESET as required
- ALT SWITCH	ON
if power not restored	
- ALT SWITCH	OFF
If alternator output cannot be r	estored, reduce electrical loads and
land as soon as practical (ASA	P).
The battery is the only remaining	ng source of electrical power
ELECTRICAL OVERLOAD (Alternator	over 20 amps above known electrical load
- ALT SWITCH	ON
- BATT SWITCH	OFF
if alternator loads are reduce	<u>ed</u>
- ELECTRICAL LOAD	Reduce to minimum
Land as soon as practical (ASAP)	
NOTE: Due to increased system volta	ge and radio frequency noise,
operation with ALT switch ON	and BATT switch OFF should be
made only when required by an	electrical system failure.
if alternator loads are not re-	duced
- ALT SWITCH	OFF
- BATT SWITCH	as required
Land as soon as possible (ASAP)	
Anticipate COMPLETE ELECTRICAL FA	ILURE

SPIN RECOVERY

- THROTTLE	IDLE
- AILERONS	NEUTRAL
- RUDDER	FULL OPPOSITE to direction of rotation
- CONTROL WHEEL	FULL FORWARD
- RUDDER	NEUTRAL (when rotation stops)
- CONTROL WHEEL	as required to smoothly regain level flight
	attitude

OPEN DOOR

If both upper and lower latches are open, the door will trail slightly open and			
airspeeds will be reduced slightly			
To close the door in flight: SLOW AIRPLANE to 8	39 KIAS		
- CABIN VENTS	CLOSE		
- STORM WINDOW	OPEN		
if upper latch is open			
- UPPER LATCH	LATCH		
if side latch is open			
PULL ON ARM REST while moving latch	handle to latched position		
if both latches are open			
LATCH side latch then LATCH top latch			
ENGINE ROUGHNESS			
ENGINE ROUGHNESS - CARBURETOR HEAT	ON		
ENGINE ROUGHNESS - CARBURETOR HEAT ▶ if roughness continues after one minutes of the second secon	ON <u>ite</u>		
ENGINE ROUGHNESS - CARBURETOR HEAT if roughness continues after one minutes of the second se	ON <u>Ite</u> OFF		
ENGINE ROUGHNESS - CARBURETOR HEAT ▶ if roughness continues after one minu - CARBURETOR HEAT - MIXTURE	ON <u>Ite</u> OFF ADJUST for max smoothness		
ENGINE ROUGHNESS - CARBURETOR HEAT ▶ if roughness continues after one minu - CARBURETOR HEAT - MIXTURE - ELECTRIC FUEL PUMP	ON <u>ute</u> OFF ADJUST for max smoothness ON		
ENGINE ROUGHNESS - CARBURETOR HEAT ▶ if roughness continues after one minu - CARBURETOR HEAT - MIXTURE - ELECTRIC FUEL PUMP - FUEL SELECTOR	ON <u>ute</u> OFF ADJUST for max smoothness ON SWITCH tanks		
ENGINE ROUGHNESS - CARBURETOR HEAT	ON <u>Ite</u> OFF ADJUST for max smoothness ON SWITCH tanks Check		
ENGINE ROUGHNESS - CARBURETOR HEAT	ON <u>Ite</u> OFF ADJUST for max smoothness ON SWITCH tanks Check L then R then BOTH		

reduced power and full RICH mixture to first airport (ASAP)

Prepare for POWER OFF LANDING

CARBURETOR ICING

- CARBURETOR HEAT	ON	
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- MIXTURE ADJUST for max smoothness

if roughness persists

Prepare for a precautionary landing at pilot's discretion

NOTE: Partial carburetor heat may be worse than no heat at all, since it may melt part of the ice which will refreeze in the intake system. Therefore when using carburetor heat always use FULL HEAT; and when ice is removed, return the control to the FULL COLD position