Piper Arrow Emergency ProceduresChecklist 5/20/2002

FIRES

OFF

OFF

OFF

OFF

ENGINE FIRE DURING START ON GROUND

- 1. Starter Continue Cranking 2. Mixture
 - IDLE CUT-OFF Full OPEN
- 3. Throttle

If Fire Continues or Engine Fails to Start

- 4. Fuel Pump 5. Fuel Selector
- 6. Ignition Switch
- 7. Master Switch
- 8. Abandon Aircraft and Use Fire Extinguisher

If Engine Starts

1. Throttle	2000 RPM for 1 Minute
2. Engine	Shutdown and Inspect

ENGINE FIRE ON GROUND

1. Fuel Selector	OFF
2. Fuel Pump	OFF
3. Mixture	IDLE CUT-OFF
4. Ignition Switch	OFF
5. Master Switch	OFF
6. Abandon Aircraft and	Use Fire Extinguisher

ENGINE FIRE IN FLIGHT

OFF
Closed
IDLE CUT – OFF
OFF
OFF
OFF
OFF

WING FIRE

1. Master Switch	OFF
2. Airspeed	Increase to Extinguish Fire
3. Slip to Keep Flames Away	y From Fuel Tanks and Cabin

CABIN OR ELECTRICAL FIRE IN FLIGHT

1. Master Switch	OFF
2. Storm Window	CLOSED
Floor Vents	CLOSED
4. Cabin Heat & Defrost	OFF
5. Fire Extinguisher	As Required
6. Floor Vents	OPEN (When Fire is Out)
7. Land as Soon as Practic	cable

If Fire Appears Out and Electrical Power is Necessary **Continued Flight**

1. All Switches But Ignition	OFF
2. Circuit Breakers	Check (Do NOT Reset)
3. Master Switch	ON
4. Electrical Switches	ON One at a Time

ENGINE FAILURES

ENGINE FAILURE DURING TAKEOFF ROLL

1.ThrottleIDLE2. BrakesAs Required3.Fuel Selector ValveOFF4.MixtureIDLE CUT-OFF5.Ignition SwitchOFF6.Master SwitchOFF

ENGINE FAILURE IMMEDIATELY AFTER TAKEOFF

1.Airspeed	79 KIAS
2.Gear	As Situation Dictates
3.Flaps	As Required
4.Fuel Selector	OFF
5.Mixture	IDLE CUT-OFF
6. Ignition Switch	OFF
7. Master Switch	OFF (Before Touchdown)

ENGINE FAILURE / POWER LOSS DURING FLIGHT (RESTART PROCEDURE)

1. Airspeed	79 KIAS
2. Fuel Selector	Switch to Opposite Tank
3. Fuel Pump	ON
4. Mixture	Full RICH
5. Alternate Air	OPEN
6. Engine Instruments	Check

ONCE POWER IS RESTORED

1. Alternate Air	CLOSED
2. Fuel Pump	OFF
3. Propeller	Adjust RPM

FORCED LANDINGS

EMERGENCY LANDING WITHOUT ENGINE POWER

1. Airspeed	79 KIAS (1.5 NM/1000')
2. Propeller	Full LOW RPM (Aft)
3. Fuel Selector	OFF
4. Fuel Pump	OFF
5. Mixture	IDLE CUT-OFF
6. Ignition Switch	OFF
7. Seat Belts	Tighten
8. Cabin Door	Unlatch Top and Bottom
	Prior to Touchdown
9. Squawk 7700 and Make a	a MAYDAY Call if Time Permits
10. Gear	As Situation Dictates
11. Flaps	40° Recommended
	once Landing Assured
12. Final Approach Speed	79 KIAS
13. Master Switch	OFF Prior to Touchdown

PRECAUTIONARY LANDING WITH ENGINE POWER

1. Squawk 7700 and Make a MAYDAY Call if Time Permits 2. ELT Remote Switch ON 79 KIAS (best glide) 3. Airspeed 4. Selected Field Over-fly and Investigate Tighten 5. Seat Belts & Harnesses Unlatch Top and Bottom 6. Cabin Door Prior to Touchdown As Situation Dictates 7. Gear 8. Flaps 40° On Final Approach 9. Final Approach Speed **79 KIAS** 10. Master Switch OFF Prior to Touchdown

PA-28RT-201

FORCED LANDINGS

DITCHING

1. Squawk 7700 and make a MAYDAY call if time permits 2. ELT Remote Switch ON 3. Loose Objects Secure or Jettison 4. Seat Belts and Harnesses Tighten Unlatch (top and bottom) 5. Cabin Doors 6. Approach High Winds, Heavy Seas Into the Wind Light Winds, Heavy Swells Parallel to Swells 7. Gear UP 8. Flaps 25 or 40 degrees 9. Throttle / Propeller 300 Ft./Min. @ 79 KIAS 10. Touchdown Level Attitude @ 300 Ft/Min

FUEL SYSTEM MALFUNCTIONS

FUEL PRESSURE DROP

1. Fuel PumpON2. MixtureFull RICH3. Fuel SelectorCheck on Fullest Tank

If Fuel Pressure Not Restored

1. Land as Soon as Practicable

OIL SYSTEM MALFUNCTIONS

LOW OIL PRESSURE WITH NORMAL OIL TEMPERATURE

- 1. Throttle / Propeller Make Minimum Power Changes
- 2. Conserve Altitude Until Landing is Assured
- 3. Land as Soon as Practicable

ZERO OIL PRESSURE WITH HIGH OIL TEMPERATURE

- 1. Throttle / Propeller Minimum Power Changes
- 2. Execute PRECAUTIONARY LANDING

ELECTRICAL SYSTEM MALFUNCTIONS

ALTERNATOR FAILURE (Ammeter Reads Zero)

- 1. Confirm by Activating Landing Light or Other Equipment
- 2. Avionics Master Switch OFF
- 3. Nonessential Equipment OFF
- 4. Alternator Circuit Breakers Check *
- 5. Master Switch OFF for 30 Sec Then ON
- 6. Ammeter Check for Positive Load

If Alternator Does Not Reset

- 1. Alternator Switch OFF(Right Half of Master Switch)
- 2. Electrical Load Minimize
- 3. Land as Soon as Practicable
- * Allow circuit breaker to cool 3 minutes before resetting

NOTE: If the battery discharges completely, the gear must be lowered using the emergency landing gear extension procedure and the landing gear position lights will be inoperative.

LANDING GEAR FAILURES

FOR ALL LANDINGS WITH A GEAR MALFUNCTION

- 1. Reduce Fuel Load to a Minimum
- 2. Divert to a Field With Adequate Crash Response
- 3. Seat Belts and HarnessesTighten
- 4. Cabin Door Unlatch Prior to Touchdown
- 5. Abandon Aircraft Immediately Once Stopped

LANDING GEAR FAILS TO EXTEND

1. Gear Switch	Check DOWN
2. Master Switch	Check ON
3. Gear Pump & Indicator	
Lights Circuit Breakers	Check *
4. Panel Lights	Check OFF (Daytime)
5. Indicator Bulbs	Check (Try Another Bulb)
6. Gear Position	Check with an Observer
7. Gear	Recycle If Appropriate
f Gear Still Fails to Extend **	

1. Emergency Gear Lever

EMERGENCY DOWN and Hold Until Gear Lock Down

If Gear Still Fails to Extend **

- 1. Yaw Aircraft Abruptly With Rudder
- * Allow circuit breaker to cool 3 minutes before resetting
- ** If electrical power has been lost the landing gear position indicator lights will be inoperative.

GEAR-UP LANDING

1. Flaps	40°
2. Final Approach Speed	79 KIAS

When Landing is Assured

1. Mixtures	IDLE CUT-OFF
2. Ignition Switch	OFF
3. Master Switch	OFF
4. Fuel Selector	OFF

LANDING WITH ONE MAIN GEAR UP OR UNSAFE

Indicator bulbs
Final Approach Speed
Master Switch

CHECK WITH OTHER BULB 79 KIAS OFF

At Touchdown or When Landing is Assured

1. MixturesIDLE CUT-OFF2. Ignition SwitchOFF3. Touchdown on the Side of the Runway of Extended Gear4. Fuel SelectorOFF5. Master SwitchOFF

LANDING WITH NOSE GEAR UP OR UNSAFE

1. Final Approach Speed	90 KIAS
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At Touchdown or When Landing is Assured

1. Mixtures	IDLE CUT-OFF
2. Ignition Switch	OFF
3. Master Switch	OFF
4. Fuel Selector	OFF
5. Lower Nose Gently as	s Aircraft Slows

LANDING WITH A FLAT NOSE TIRE

1. Flaps40° (Full DOWN)2. Touchdown on the Center of the Runway3. Control WheelFull Aft to Minimize Weight on the
Nose Wheel4. BrakingMinimum Required

TIRE BLOW OUT ON TAKEOFF

1. Do Not Retract Gear

AFTER EMERGENCY LANDING

1. Master SwitchConfirm OFF2. Abandon Aircraft Until All Danger of Fire has passedWhen it is safe to return to the aircraft

1. ELT

ON

If Radio is Still Operative

1. Make Periodic Mayday Call and Monitor 121.5 for Instructions

OTHERS

EMERGENCY DESCENT

1. Throttle	IDLE
2. Propeller	Full HIGH RPM (Forward)
3. Mixture	Full RICH
4. Gear	DOWN (<130 KIAS)
5. Flaps	40° (Full DOWN)

PROPELLER OVERSPEED

1. Airspeed	Reduce
2. Throttle	Reduce
3. Propeller	Retard to LOW RPM Then Set if any
	Control Available
4. Oil Pressure	Check
5. Throttle	As Required Below 2700 RPM
6. Land as Soon as Pra	cticable

SPIN

1. Throttle	Idle
2. Ailerons	Neutral
3. Rudder	Full Opposite Direction of Spin
4. Control Wheel	Forward
5. Rudder	Neutral When Rotation Stops
6. Recover Smoothly From Ensuing Dive	

CABIN DOOR OPEN INFLIGHT

1. Airspeed	79 KIAS
2. Floor Vents	CLOSED
3. Storm Window	OPEN
4. Push Door Open Agai	inst Slipstream Then Slam it Closed

Note: A slip in the direction of the open door will assist in latching.

PITOT-STATIC SYSTEM FAILURE

1. Pitot Heat	ON
2. Alternate Static Source	ON
3. Consult POH for Airspee	d & Altitude Corrections

RADIO FAILURE

1. Audio Controls	Check volume	
2. Headset Jacks	Check for connection	
3. Circuit Breakers	Check in	
4. Speaker	ON	
5. Attempt Contact on Another Frequency		
6. Attempt Contact Using Hand Held Microphone		

If Radio Contact Cannot Be Established and is Required (Class B, C, and D Airspace)

1. Transponder 7600

2. Continue Transmissions (Only Receiver May Be Inop)

3. Monitor Nav-aids For Voice Transmissions