

**PA-28-161 Piper Warrior II  
EMERGENCY Checklist**

Indicates Memory Item(s)

**V/R ENGINE FAILURE DURING T/O**

Aircraft Control ..... MAINTAIN

Maintain BEST GLIDE ..... 73 KIAS

Fuel Selector ..... OFF

Mags ..... OFF

Mixture ..... FULL LEAN/IDLE CUTOFF

Master ..... OFF

Flaps ..... DOWN

Cockpit Door ..... UNLATCH

**V/R POWER LOSS IN FLIGHT**

Pitch for BEST GLIDE ..... 73 KIAS

Pick Landing Site ..... COMPLETE

Note Wind Direction & Velocity ..... COMPLETE

Clean the Aircraft – DRAG ..... COMPLETE

Fuel Proper Tank ..... CHECK/SWITCH

Mags ..... CHECK BOTH

Fuel Primer ..... LOCKED (Try Reprime)

Mixture ..... FULL RICH

Throttle ..... PUMP

Carb Heat ..... ON

Master ..... ON

Fuel Pump ..... ON

**V/R NO RESTART & TIME PERMITS**

Maintain BEST GLIDE ..... 73 KIAS

Squawk 7700 ..... COMPLETE

Declare Emergency ..... TWR, UNICOM, 121.5

Seatbelts / Harness ..... CHECK

ELT ..... ON

Fuel Selector ..... OFF

Mags ..... OFF

Mixture ..... FULL LEAN/IDLE CUTOFF

Master ..... OFF

Avionics ..... OFF

Flaps ..... AS NEEDED

Cockpit Door ..... UNLATCH

PROTECT BODY ..... COMPLETE

**V/R ELECTRICAL FIRE IN FLIGHT**

All Electrical Devices ..... OFF

Master ..... OFF

Cabin Air and Heat ..... OFF

IF Fire OUT and critical, MASTER ..... ON

Vents ..... OPEN

One Essential Electrical Device at time ..... ON

Circuit Breaker if Critical ..... RESET

LAND ASAP ..... COMPLETE

**V/R ENGINE FIRE IN FLIGHT**

Source of Fire ..... CHECK

Fuel Selector ..... OFF

Throttle ..... CLOSED

Mixture ..... FULL LEAN/IDLE CUTOFF

Fuel Pump ..... OFF

Master ..... OFF

Cabin Air and Heat ..... OFF

Vents ..... OPEN

Increase Speed extinguish ..... AS NEEDED

LAND ASAP ..... COMPLETE

**V/R ENGINE FIRE DURING START**

Ignition ..... CONTINUE CRANKING

IF Engine **Does** Start:

Run Couple of Seconds ..... COMPLETE

Engine ..... SHUTDOWN

If Engine **Does NOT** Start:

Ignition ..... CONTINUE CRANKING

Mixture ..... IDLE CUTOFF

Throttle ..... FULL OPEN

Fire Extinguisher ..... OBTAIN

Master ..... OFF

Fuel Pump ..... OFF

Ignition/Mags ..... OFF

Fuel Selector ..... OFF

If Fire continues ..... EVACUATE

Fire Extinguisher ..... USE

**V/R AIRSPEED INDICATOR FAILURE**

Predetermined Pitch and Power ..... USE

**V/R ALTERNATOR FAILURE**

Reduce Electrical Load ..... COMPLETE

Circuit Breaker ..... CHECK

Overvoltage Relay ..... RESET

ALT Switch OFF then ON ..... WAIT 1 SECOND

LAND ASAP ..... COMPLETE

**V/R ENGINE ROUGHNESS**

Carb Heat ..... ON

If Roughness continues after 1 minute:

Carb Heat ..... OFF

Adjust Mixture ..... MAX SMOOTHNESS

Fuel Pump ..... ON

Fuel Proper Tank ..... CHECK/SWITCH

Engine Gauges ..... CHECK

Mags ..... L – R – BOTH

**V/R FLUTTER**

Throttle ..... FLIGHT IDLE

Pitch UP to Slow Down ..... COMPLETE

NOTE:  
Caused from Imbalanced Airfoils.  
Speed Amplifies problem!

**V/R SEVERE VIBRATION**

Throttle ..... FLIGHT IDLE

Pick Suitable Landing Field ..... COMPLETE

LAND ASAP ..... COMPLETE

NOTE:  
Usually Prop-Tip Separation.  
Reduce RPM's so that engine  
will not separate from mounts.

**V/R SPIN RECOVERY**

Throttle ..... IDLE

Ailerons ..... NEUTRAL

Rudder Direction ... OPPOSITE OF ROTATION

Rudder Direction when Spin Stop ..... NEUTRAL

Pitch Forward to Break Stall ..... COMPLETE

Pull Back to Recover from Dive ..... COMPLETE

Power ..... 2400RPM

**Emergencies**

**Mayday, Mayday, Mayday:**

- Identify Aircraft
- Nature of Problem
- Current Position
- Description of Aircraft
- Assistance Required
- Number of Souls onboard
- Intentions

**Engine Out:**

- On **ROLL**  
→ cut power → Brake Straight Ahead
- **AFTER ROTATE**  
→ cut power → Land Straight Ahead
- On **Climbout/OFF AIRPORT Property** →
  - Cut power
  - Pitch for Best Glide 73KIAS
  - Avoid Obstacles
  - Make minor corrections
- On **Climbout/over 1000Ft** →
  - We have a chance to make it back to the field.
  - Pitch for Best Glide 73KIAS

**Proper Exchange of Flight Controls:**

Instructor to Student → I have the controls  
 Student to Instructor → You have the controls  
 Instructor to Student → I have the controls

Student to Instructor → You have the controls  
 Instructor to Student → I have the controls  
 Student to Instructor → You have the controls

**Emergencies:**

In the Event of an emergency, the Instructor has the controls, the student has the checklists, we work as a team!

**V/R EMERGENCY IMC**

Attitude Indicator ..... STRAIGHT AND LEVEL  
 Bank Angle ..... 15°  
 60 Second Turn ..... COMPLETE

**NOTE:**

- AI – Master Instrument
- AI – 90% of scan
- AI – Emphasize in times of Vertigo
- AI – Always Transition with it, utilizing predetermined pitch and bank angles.
- Control – AI / Power Indication (Tach)
- Performance – (primary) Numerical value trying to maintain.

**V/R RADIO OUT**

Circuit Breakers ..... CHECK  
 Volume ..... CHECK  
 Recycle Alternator Switch ..... COMPLETE  
 Transponder 7600 ..... SET  
 Fly Over TPA by 500' ..... COMPLETE  
 Look for Light Gun Signals ..... COMPLETE

<i>In Flight</i>	
<b>Steady Green</b>	Cleared to Land
<b>Flashing Green</b>	Return for Landing
<b>Steady Red</b>	Give way to other aircraft, Continue to Circle
<b>Flashing Red</b>	Airport Unsafe
<b>Flashing Green and Red</b>	Use Extreme Caution

<i>On Ground</i>	
<b>Steady Green</b>	Cleared for Takeoff
<b>Flashing Green</b>	Cleared to Taxi
<b>Steady Red</b>	Stop
<b>Flashing Red</b>	Clear the Active Runway
<b>Flashing Green and Red</b>	Use Extreme Caution
<b>Flashing White</b>	Return to Starting Point

**V/R EMERGENCY DECENT**

Throttle ..... IDLE  
 Within White Arc (below Vfe) ..... 40° FLAPS  
 Pitch ..... Vfe  
 Bank Angle ..... 45°

**NOTE:**

100+KIAS creates incombustible Mixture for engine fires

**THEORY:**

Decrease Thrust, Increase Drag,  
 Reduce Lift to drop like a Rock!

**V/R LOST PROCEDURES**

Climb ..... COMPLETE  
 Communicate ..... COMPLETE  
 Confess ..... COMPLETE  
 Comply ..... COMPLETE  
 Conserve ..... COMPLETE  
 Triangulate .. CENTER CDI w/ FROM Indication  
 Use Freq. .... 114.5, 109.4, 117.9, 112.9

**V/R DOOR AJAR**

**FLY THE AIRPLANE!** ..... COMPLETE  
 Slow Aircraft ..... 89KIAS  
 Cabin Vents ..... CLOSE  
 Storm Window ..... OPEN  
 If Upper Latch is Open ..... LATCH  
 If Side Latch is Open .. PULL ARMREST/LATCH  
 If Both Latches Open ..... LATCH SIDE  
 LATCH TOP

**V/R ICING**

Pitot Heat ..... ON  
 Carb Heat ..... ON or AS REQUIRED  
 Cabin Air and Heat ..... MAXIMUM  
 180 degree turn ..... STRONGLY CONSIDER  
 Attain Higher or Lower Altitude ..... COMPLETE  
 Increase Engine Speed ..... COMPLETE  
 Flaps ..... NOT RECOMMENDED  
 Land Faster ..... COMPLETE