

Multi-Engine Failure Procedures

Ryan Roberts CFI/CFII/MEI © 2004 – www.Halozone.com – Revision 1.2

1 Maintain: Control and Performance

During Climb (Below Safe Altitude)
Heading – Wings Level and Maintain
Airspeed – Pitch for Vyse

Safe Altitude
Heading – Wings Level and Maintain
Altitude – Level and Maintain

2 Mixture → Props → Throttle Full Forward → Flaps Up → Gear Up

or

Mixture → Props → Throttle to Maintain Glidepath → Flaps Up → Gear SET

- During Landing when gear is already extended

↻ Heading and Altitude/Airspeed ↻

3 Identify: Dead Foot → Dead Engine

4 Verify: Retard Throttle → No Adverse Yaw

↻ Heading and Altitude/Airspeed ↻

Critical or Non-Critical Phase?

5 <u>Critical Phase of Flight</u>	5 <u>Non-Critical Phase of Flight</u>
<p>① <u>Inoperative Engine</u> Shut Down Engine (<u>Triple Verify Each</u>)</p> <ul style="list-style-type: none"> ▪ L/R Throttle – Already Idle ▪ L/R Prop – Feather ▪ L/R Mixture – Idle Cutoff <p>② <u>Good:</u></p> <ul style="list-style-type: none"> ▪ Engine 25°/2500, Mixture, Cowl Flaps ▪ Landing Site Turn toward a suitable airport ▪ Trim – Stabilized Flight (3-5° bank, ½ ball width deflection) 	<p>① <u>Good:</u></p> <ul style="list-style-type: none"> ▪ Engine 25°/2500, Mixture, Cowl Flaps ▪ Landing Site Turn toward a suitable airport ▪ Trim – Stabilized Flight (3-5° bank, ½ ball width deflection) <p>② <u>Inoperative Engine</u></p> <ul style="list-style-type: none"> ▪ Throttle ¼ inch open ▪ Engine Failure Cause Check <ul style="list-style-type: none"> ▪ Fuel Selector ▪ Alternate Air ▪ Mixture ▪ Magnetos ▪ Fuel Pumps <p>③ Did Not Start? Shut Down Engine (<u>Triple Verify Each</u>)</p> <ul style="list-style-type: none"> ▪ L/R Throttle – Idle ▪ L/R Prop – Feather ▪ L/R Mixture – Idle Cutoff

6 Secure Feathered (Inoperative) Engine – Use the Checklist

7 Contact ATC – Declare an emergency if necessary