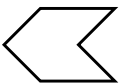




# Engine Failure After Lift-Off

THE BACKSEAT PILOT



1

# Overview

- **What**
  - Elements involved with safely handling an engine failure while airborne
- **Why**
  - It's essential that a pilot can maintain control of the airplane in the case of an engine failure

## Content

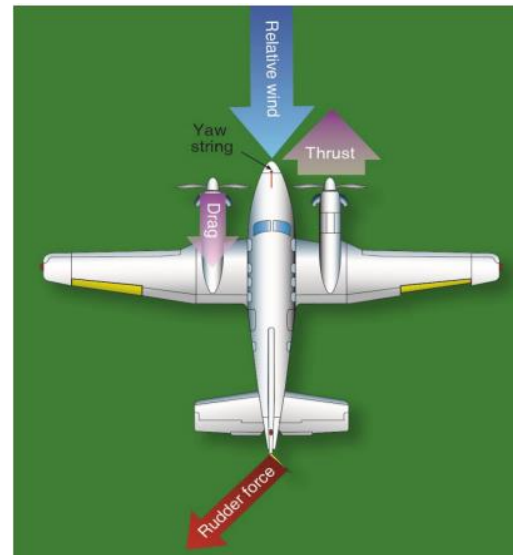
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- Controlling the Aircraft
- Engine Failure Procedures
- Engine Failure after Lift-Off



# Controlling the Aircraft

- Recognize the Engine Failure
  - Yaw toward the dead engine
- Zero-Sideslip Configuration
  - 1-3° bank
  - ½ ball toward the operating engine



Source: Airplane Flying Handbook, FAA

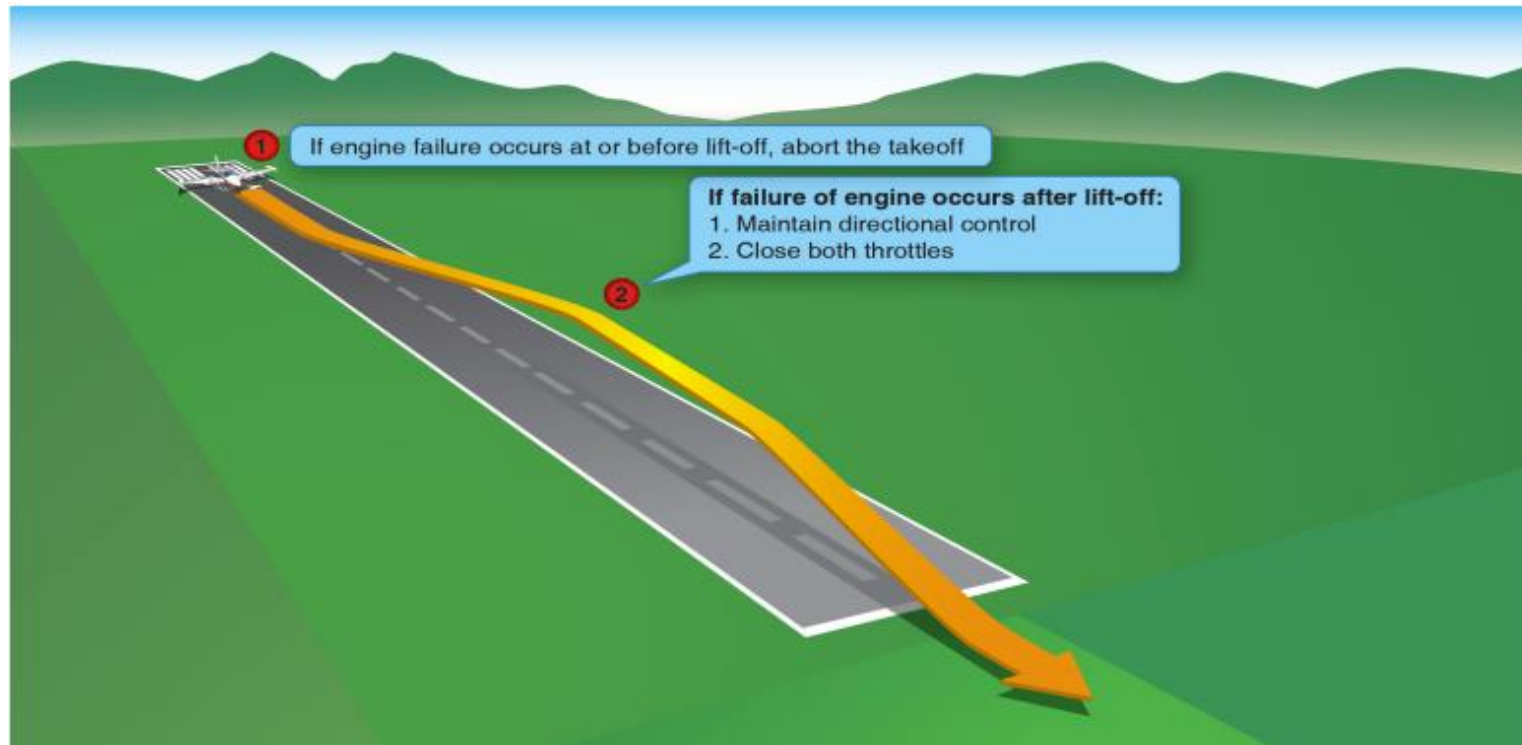
# Engine Failure Procedures

- Maintain Control
- Full Power
- Reduce Drag
- Identify
- Verify
- Fix or Feather



# Engine Failure after Lift-Off

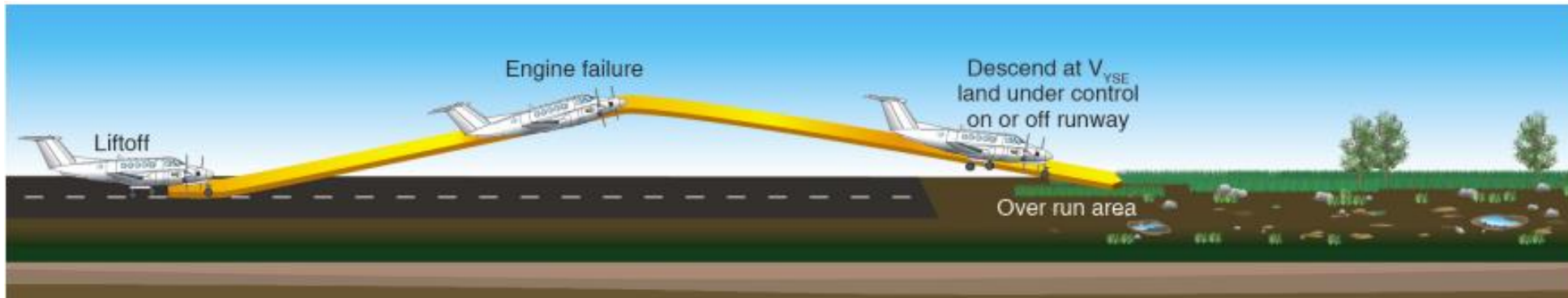
- Gear Down
  - Land on the remaining runway



Source: Airplane Flying Handbook, FAA

# Engine Failure after Lift-Off

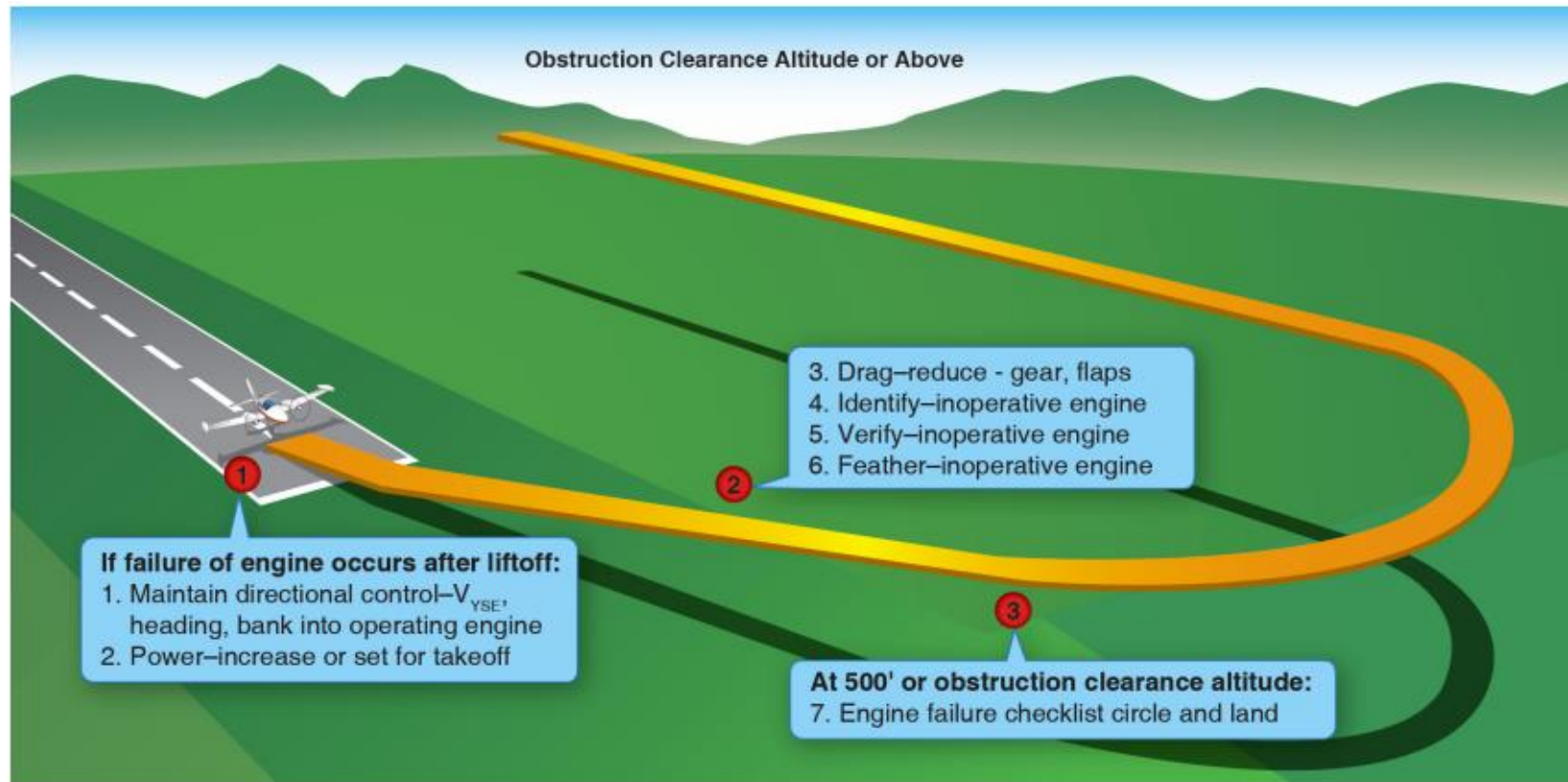
- Gear Up, Inadequate Single-Engine Climb
  - Landing must be accomplished



Source: Airplane Flying Handbook, FAA

# Engine Failure after Lift-Off

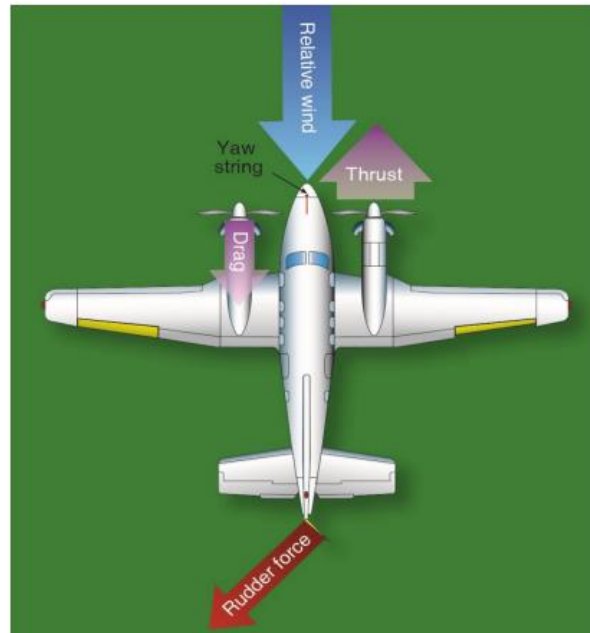
- Gear Up, Adequate Single-Engine Climb
  - Return to land



Source: Airplane Flying Handbook, FAA

# Engine Failure after Lift-Off

- Enroute
  - Maintain control
  - Engine failure procedures / checklists
  - Land as necessary



Source: Airplane Flying Handbook, FAA



# Questions?

