

# Engine Fuel Systems

## The Basics



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# Continental Motors Continuous Flow Fuel Injection



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# Continuous Flow Fuel Injection

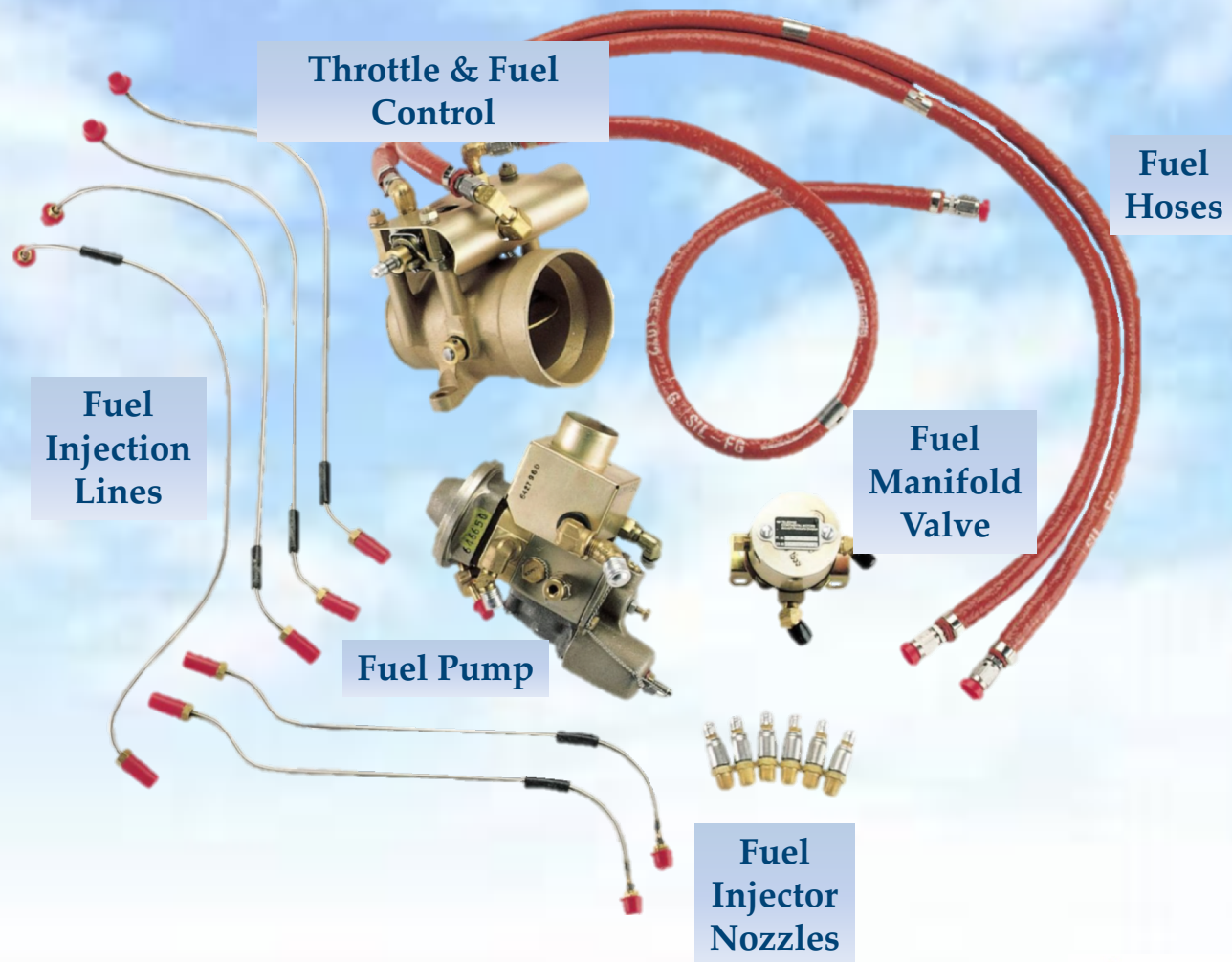
- Fuel System Components
  - Fuel Pump
    - Positive Displacement
  - Fluid Hoses
  - Throttle and Control Unit
  - Manifold Valve
  - Fuel Injector Lines
  - Fuel Injection Nozzles



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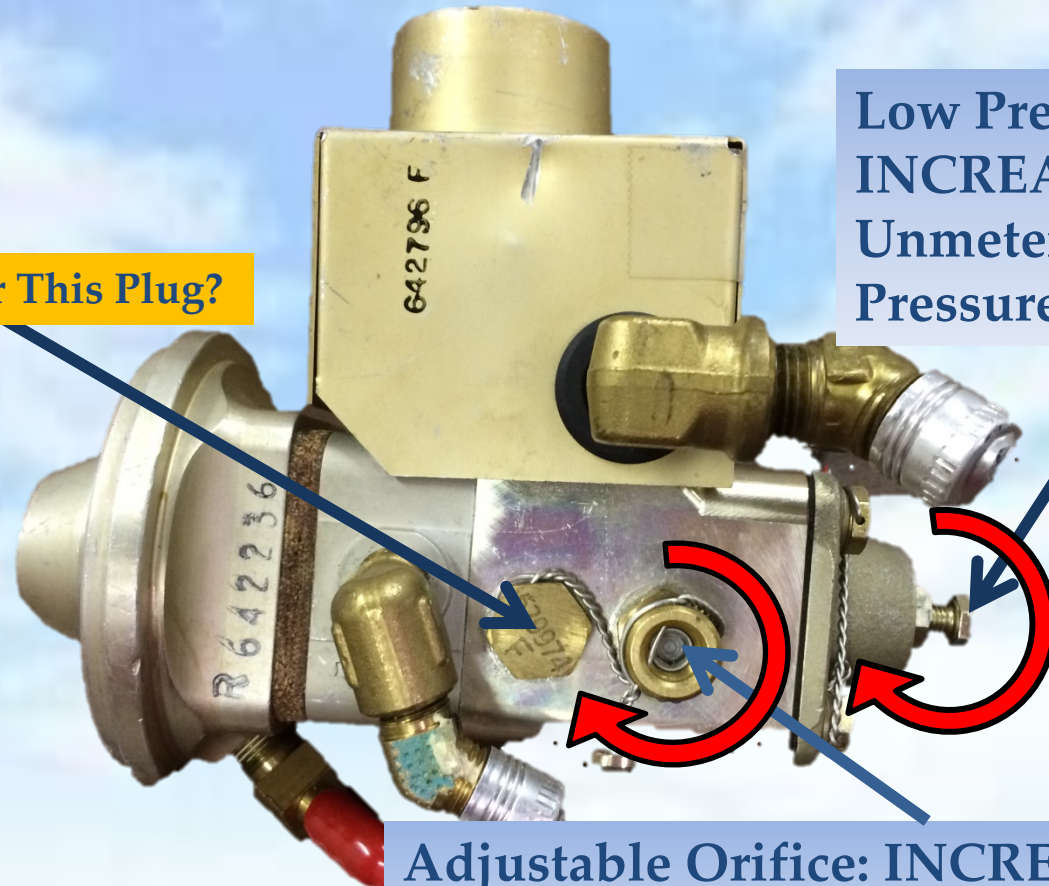
# Fuel System Components



# Fuel System Components

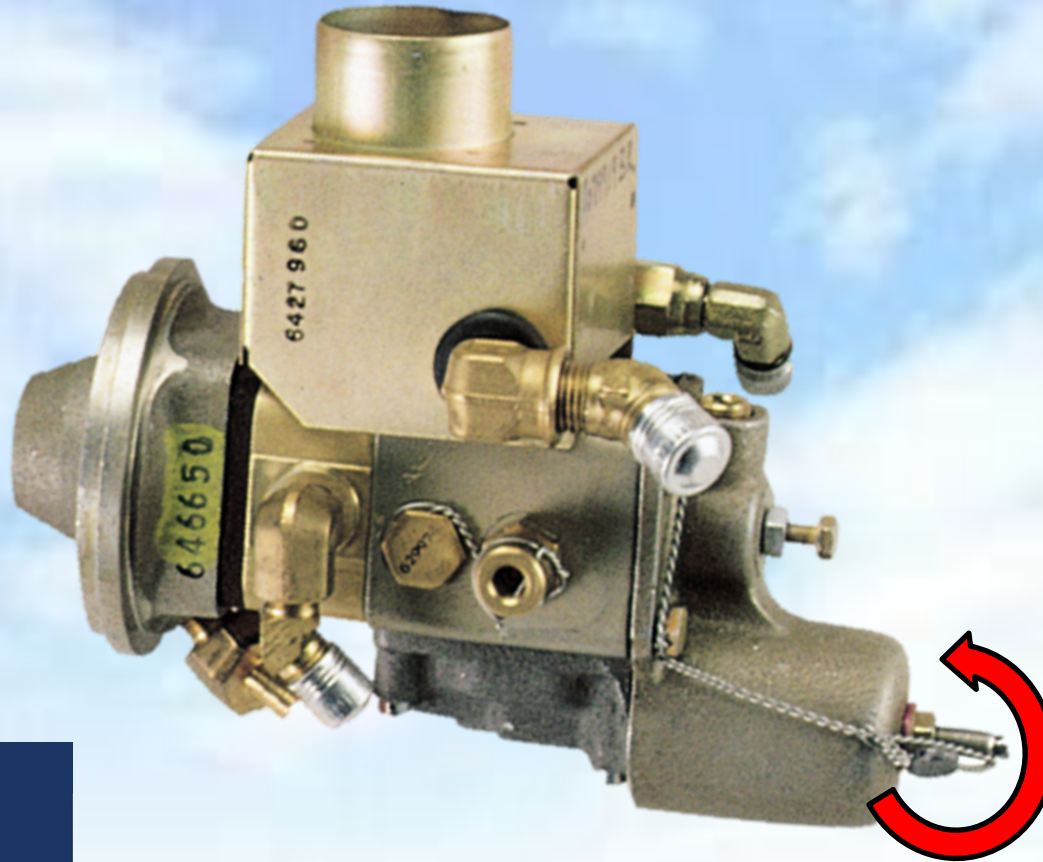
What Is Under This Plug?

Low Pressure Relief: INCREASE Idle Unmetered/metered Pressure CW



Adjustable Orifice: INCREASE Full Power Unmetered/metered Pressure CW

# Fuel System Components

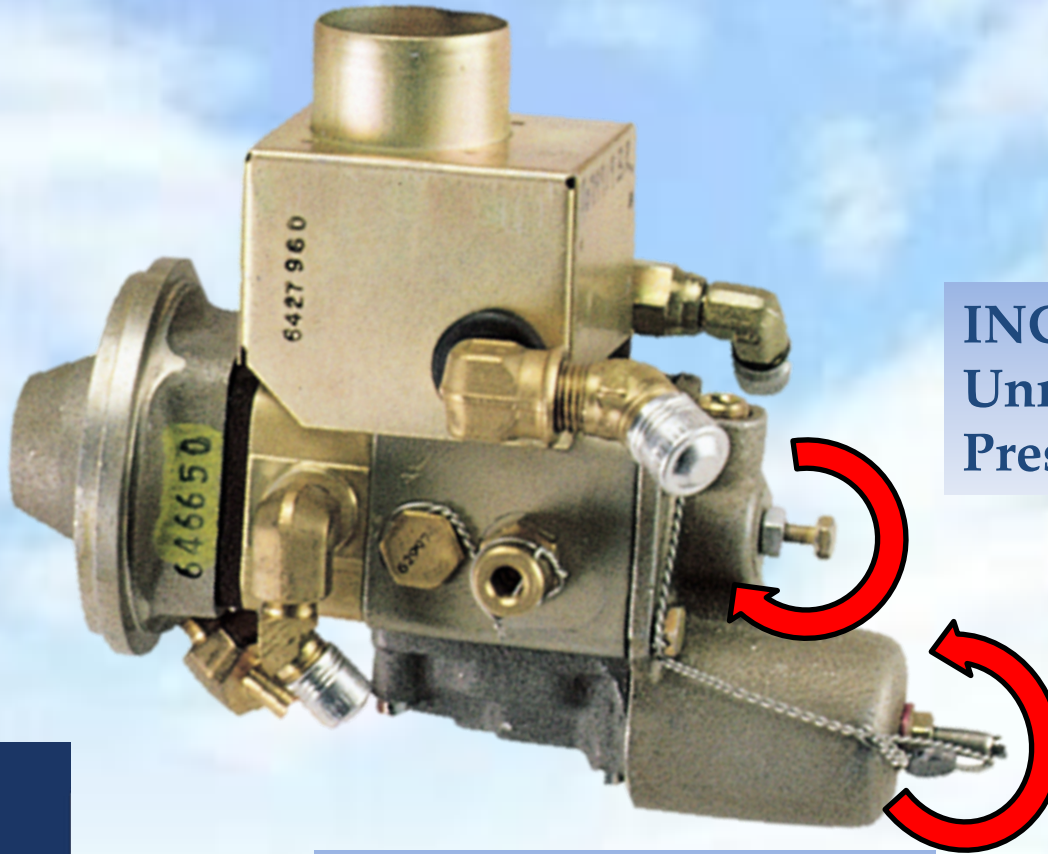


**Aneroid to Be Checked/Set After Check Flight**

**Raise Leaning Altitude  
CCW**

**Altitude Compensating Fuel Pump**

# Fuel System Components



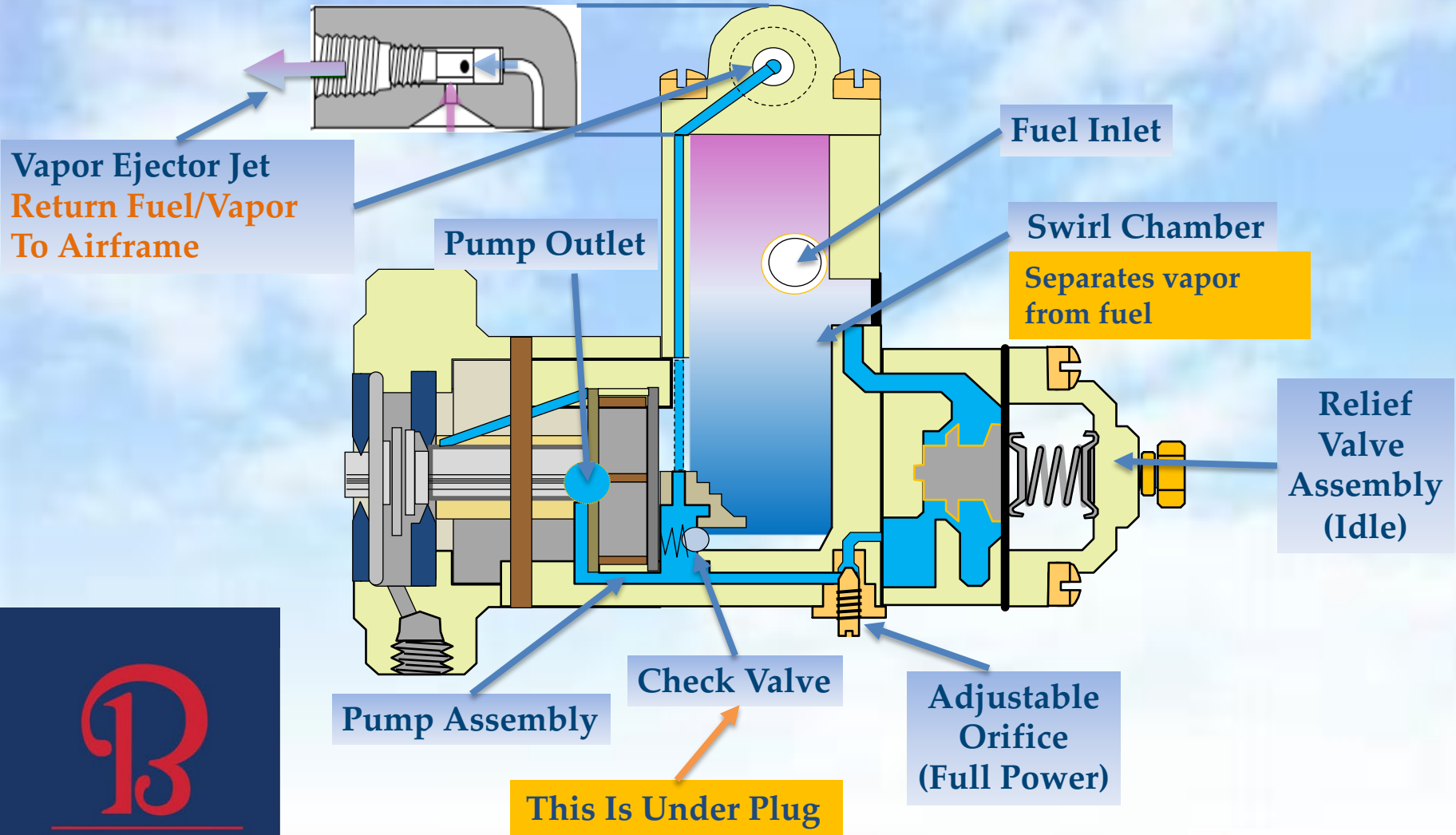
**INCREASE Idle  
Unmetered/metered  
Pressure CW**

**Aneroid to Be Set  
During Fuel  
System Setup**

**INCREASE Full Power  
Unmetered/metered  
Pressure CCW**

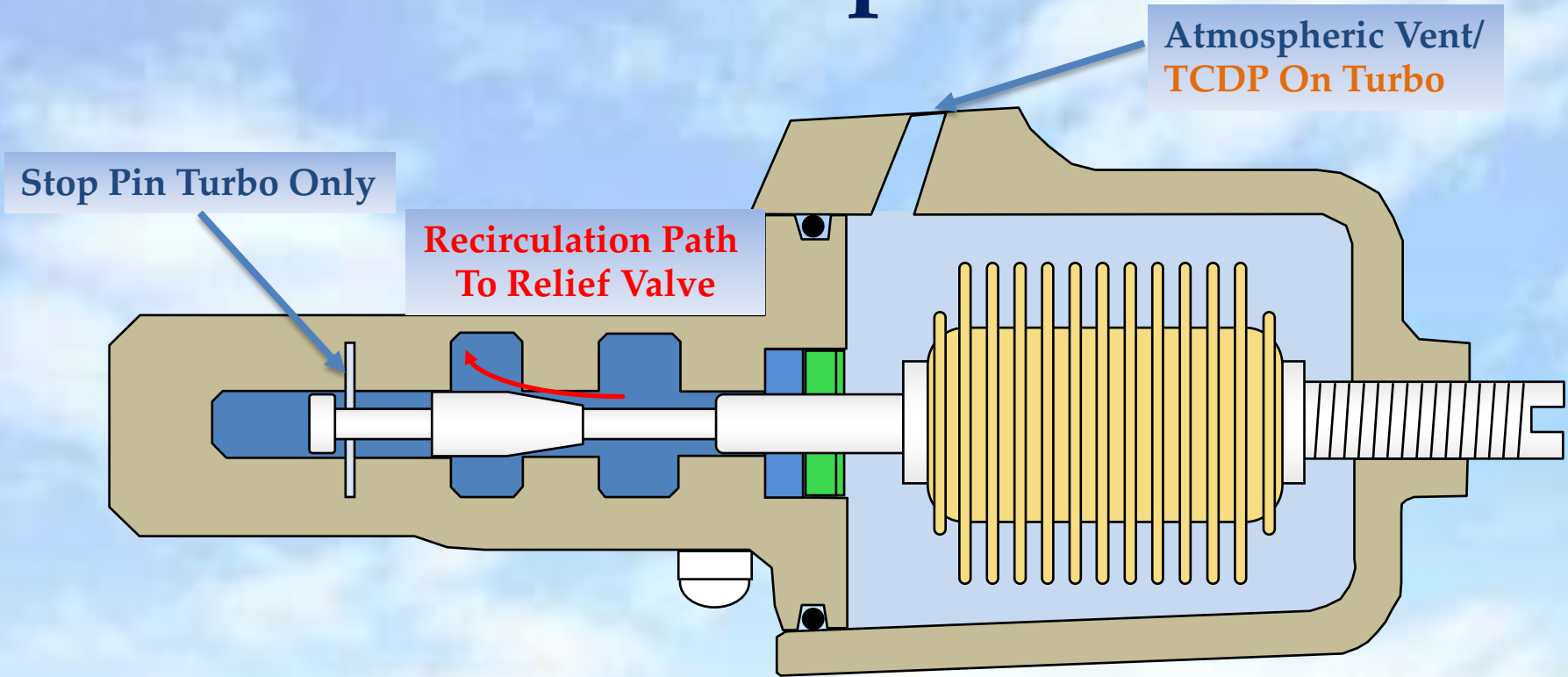
**Turbocharged Fuel Pump**

# Fuel System Components





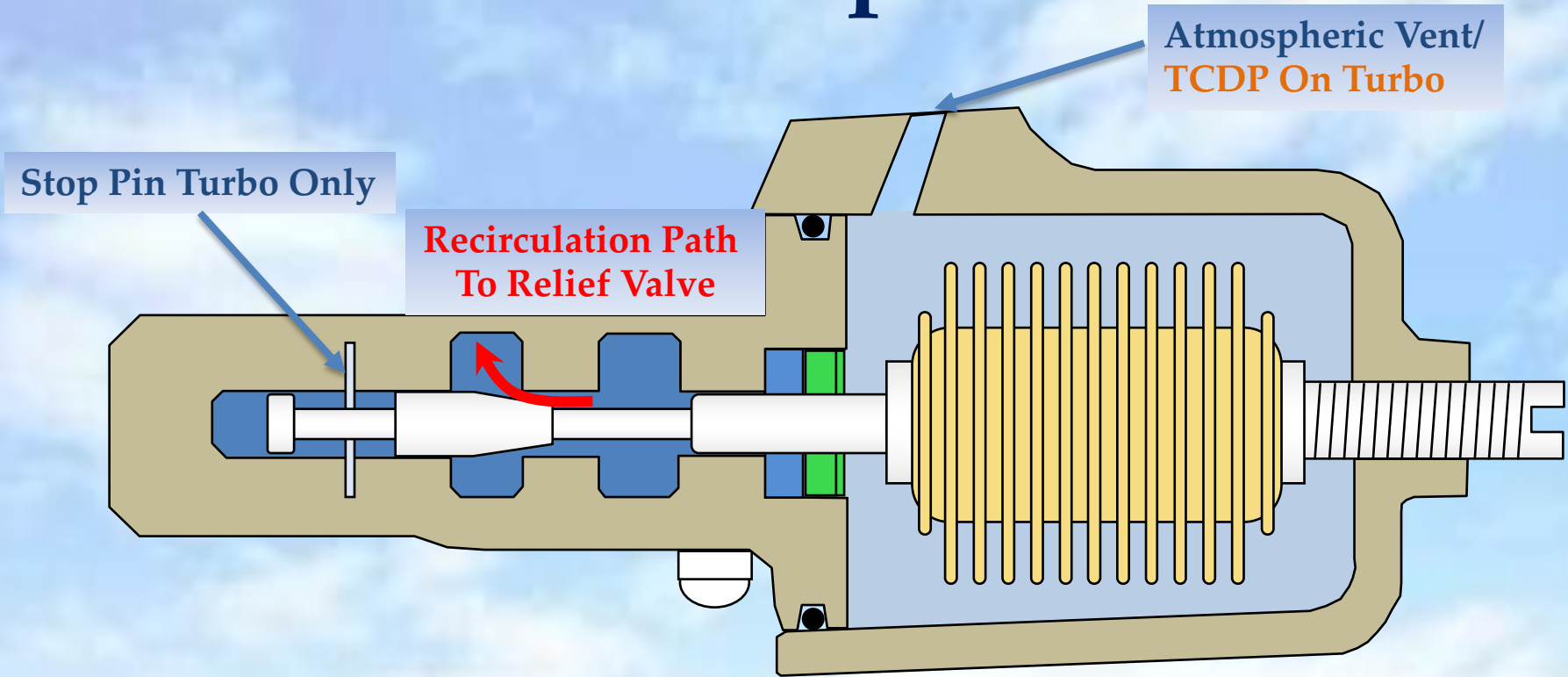
# Aneroid Operation



**LESS** Internal Recirculation  
Means **GREATER** Output Pump  
Pressure And Fuel Flow

Used On Altitude Compensating  
And Turbocharged

# Aneroid Operation



**MORE** Internal Recirculation  
Means **LOWER** Output Pump  
Pressure And Fuel Flow

Used On Altitude Compensating  
And Turbocharged

# Fuel System Components



Replace Every 5  
Years Or Engine  
Overhaul

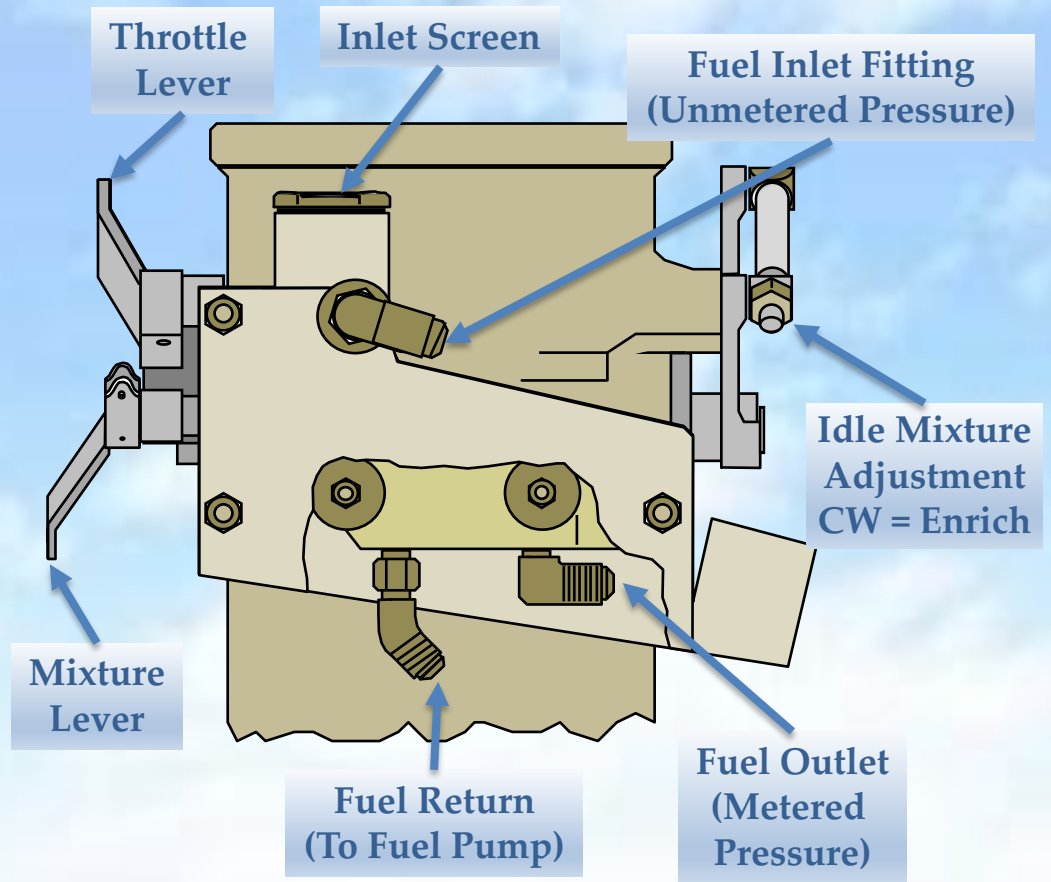


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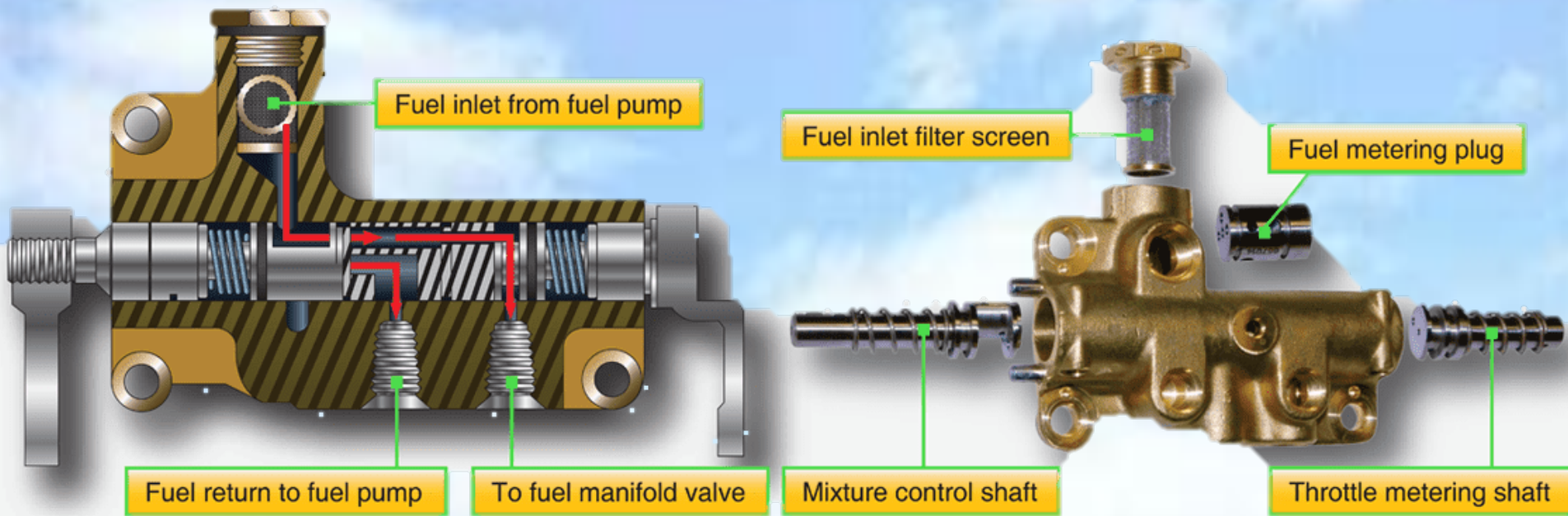
Fluid Hoses



# Fuel System Components

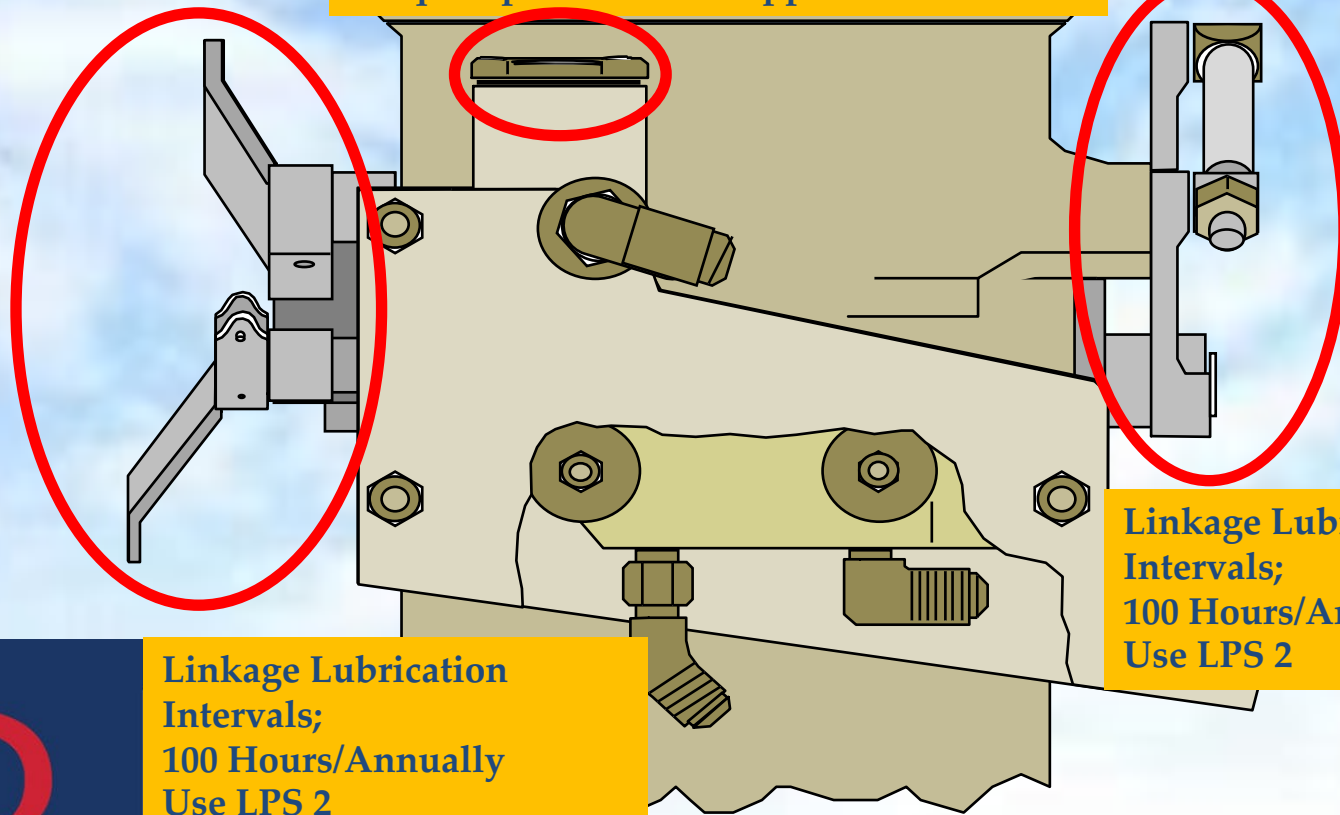


# Fuel System Components



# Fuel System Components

Inlet Screen Cleaning Intervals; 100 Hours/  
Annually or if contamination is suspected  
Torque Spec Is In M-0 App. B



Linkage Lubrication  
Intervals;  
100 Hours/Annually  
Use LPS 2

Linkage Lubrication  
Intervals;  
100 Hours/Annually  
Use LPS 2



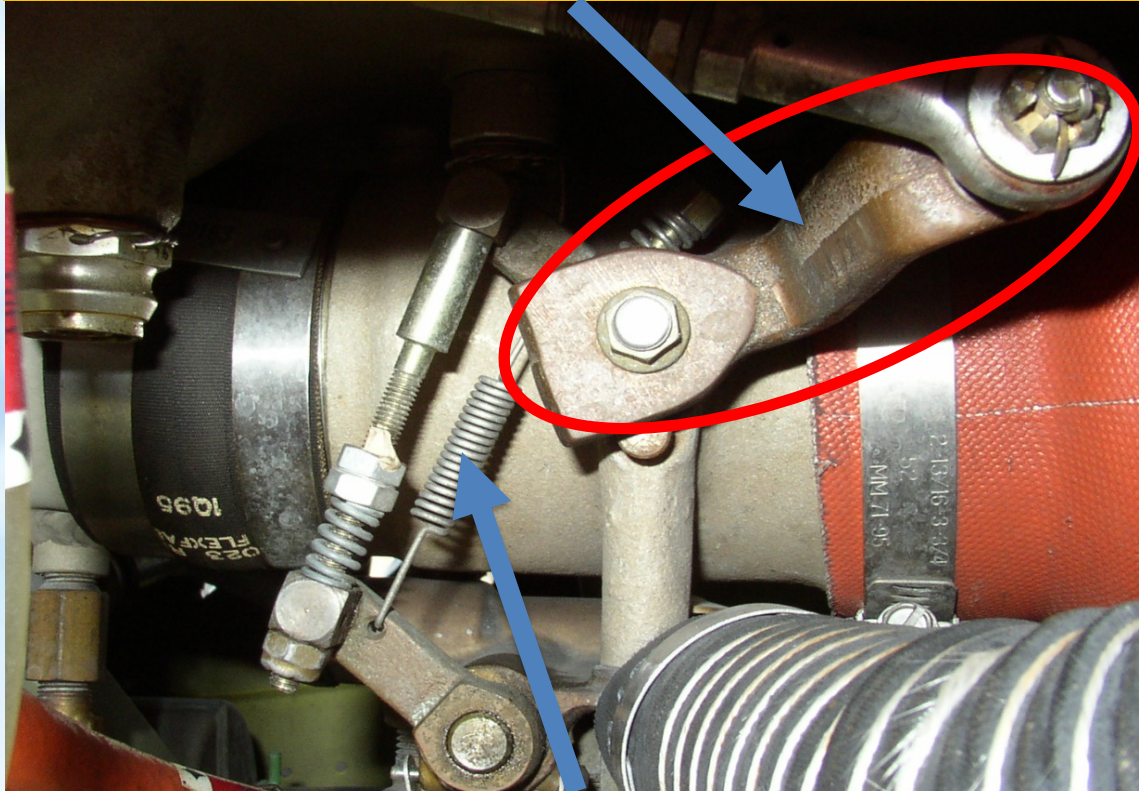
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Throttle And Control



# Fuel System Components

Inspect For Stainless Levers **CSB08-3C**



Inspect for Missing/Broken Full Throttle Spring

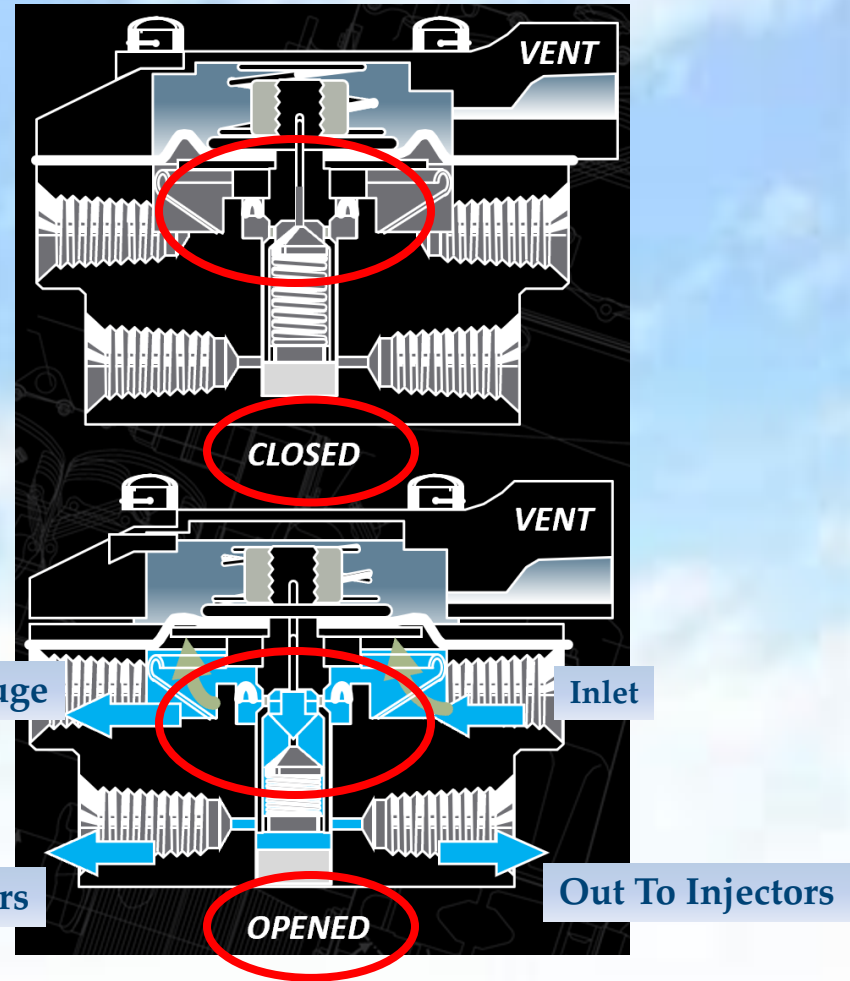
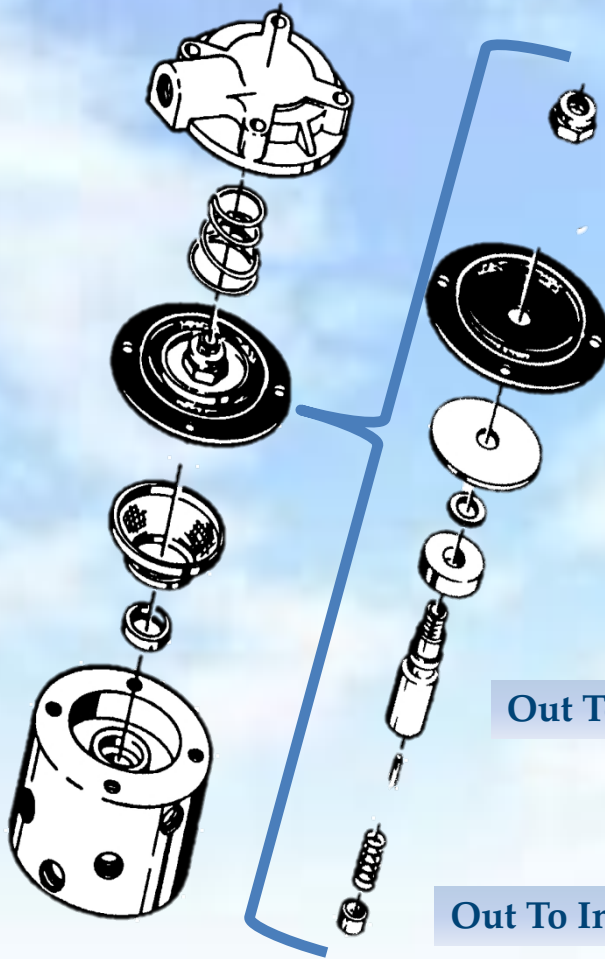


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Throttle And Control



# Fuel System Components



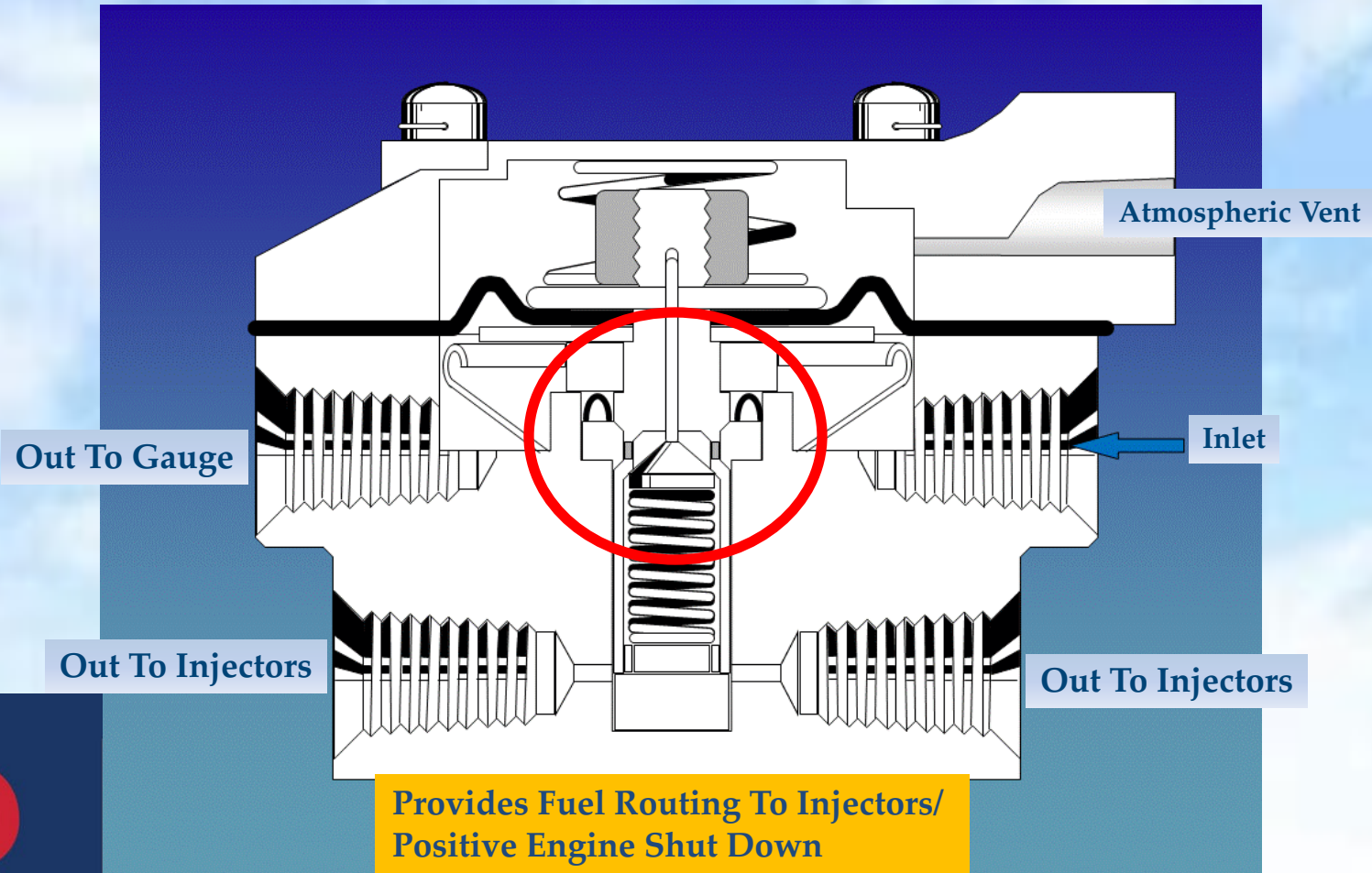
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Manifold Valve





# Fuel System Components



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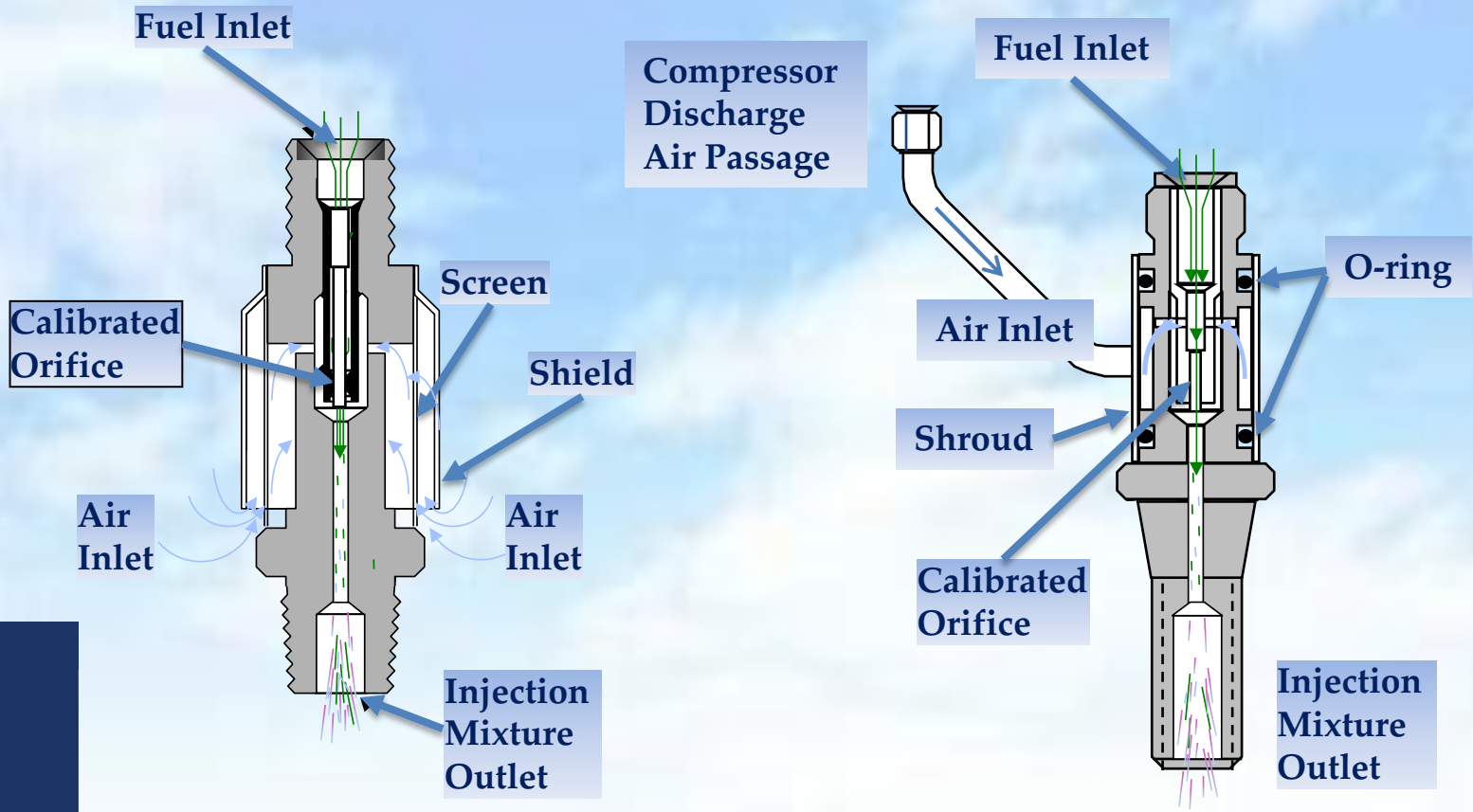
On Condition Inspection



Fuel Injector Lines



# Fuel System Components



Normally Aspirated

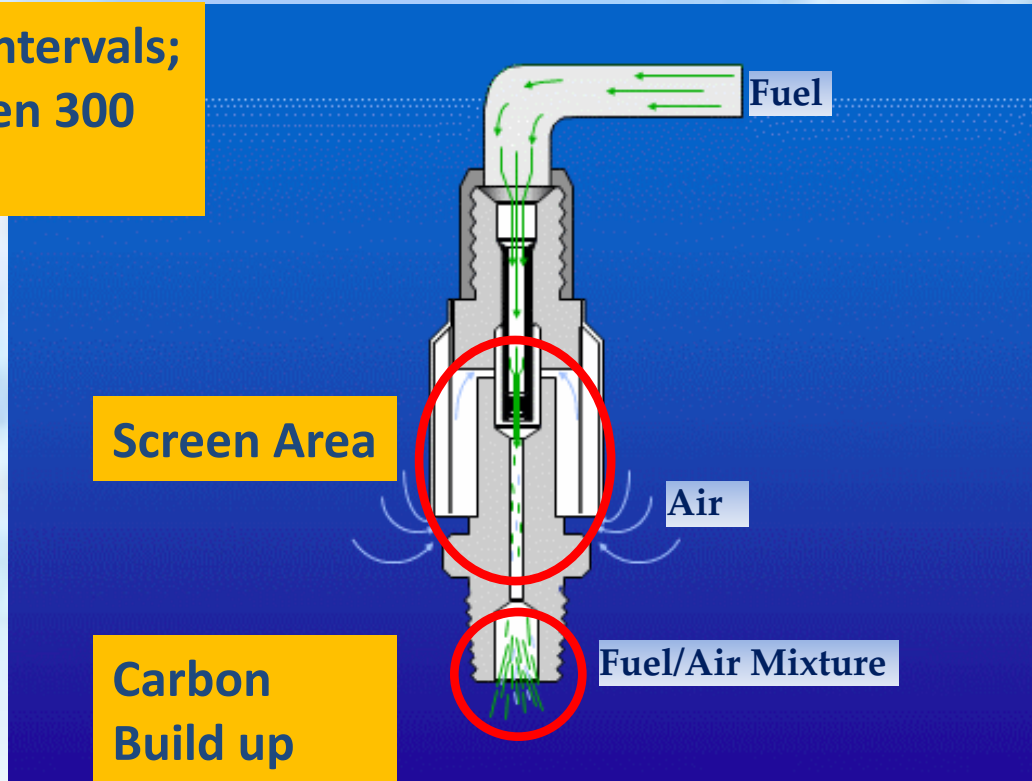
Turbo-charged

Injector Nozzle

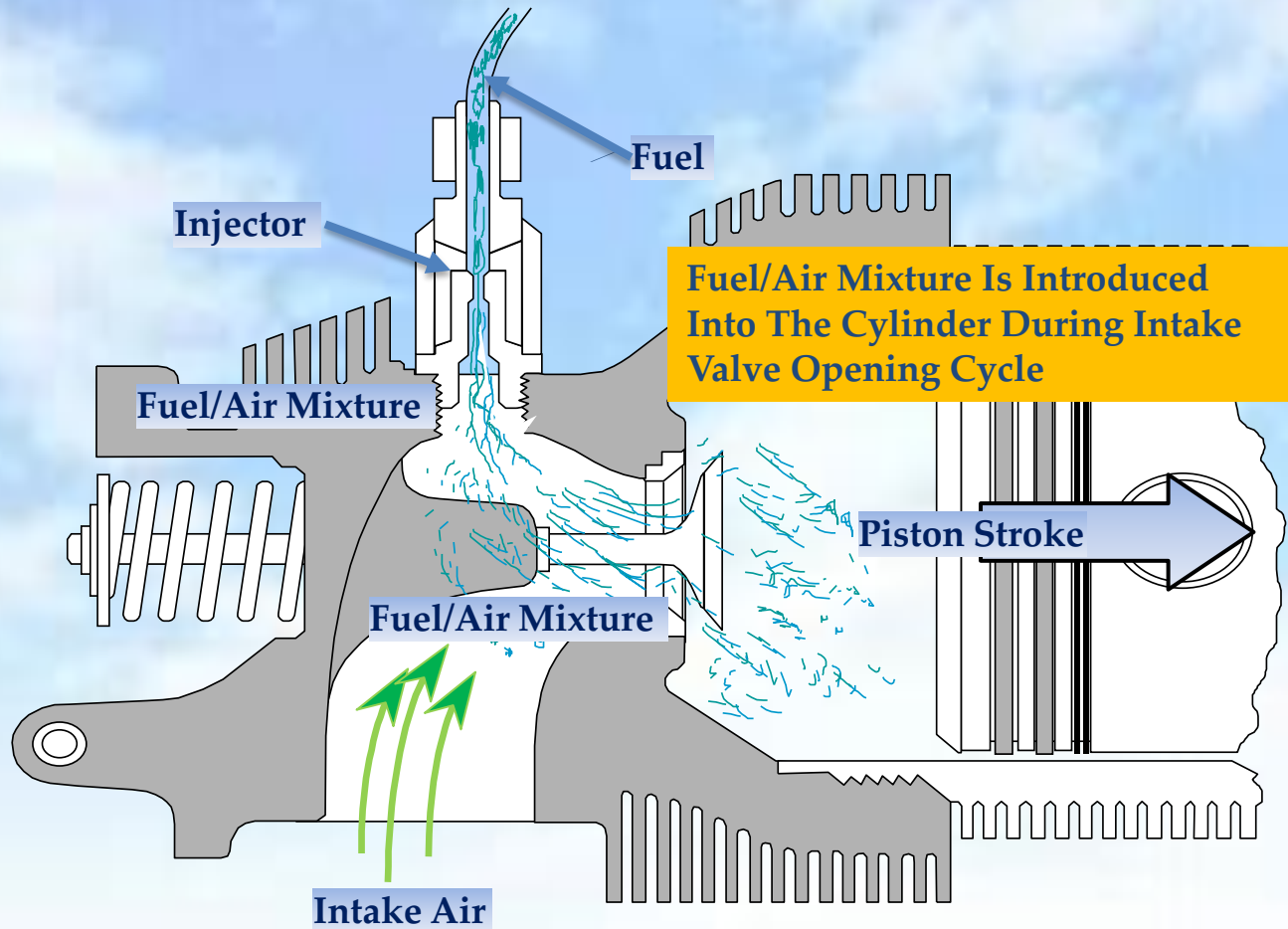


# Fuel System Components

Injector Cleaning Intervals;  
First 100 Hours Then 300  
Hours or Annually



# Fuel System Components



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Injector Nozzle Operation



# Next Time Fuel System Calibration



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