Single Engine Fuel Systems

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Overview

- Introduction
- Fuel Selector
- Gascolator
- Mechanical Pump
- Carburetor
- Summary
Fuel Systems

- Fuel systems are made for storing and delivering clean fuel to engine at correct pressure
Fuel Selector

- Fuel is fed from tank to fuel selectors
- Fuel selectors give options of having both, left, right, or neither fuel tanks used
Gascolator

- Gascolator is a fuel strainer and filter
- Drain is found on underside of wing
Mechanical Pump

- Mechanical fuel pumps are engine driven
- Pump makes a vacuum that pulls fuel from unpressurized tank
Carburetor

- Carburetor mixes fuel and air before entering engine.
Summary

- Fuel is gravity fed to fuel selectors
- After fuel selectors is gascolatorator which is fuel strainer and filter
- Mechanical pump helps make positive fuel pressure to carburetor
- Fuel mixed with air in carburetor and added to engine
References

http://www.free-online-private-pilot-ground-school.com/aircraft-powerplant.html
http://flighttraining.aopa.org/learntofly/gadgets/

Everything else is taken from airliners.net