

## Active On-Board Vapor Recovery System

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### Status:

Seeking R&D and/or  
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Patent Issued – 8,978,626

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### Active On-Board Vapor Recovery System

- To reduce evaporative losses, regulatory standards have included the use of evaporative emissions canisters
  - But not completely efficient
- On-board vapor recovery system and apparatus for vehicles that utilize a volatile fuel source
- Detects the composition of the fuel (gasoline) from fuel tank
  - Collection for high-volatility fuel
- Fuel composition sensor
  - Detects and senses the compositions of vapors collected

### Advantages of Active On-Board Vapor Recovery System

- Flexible for multiple fuel types enabling efficient engine operation.
- Can greatly reduce or eliminate emissions during cold-start
- Easily retrofit to existing vehicles
- Simplify the consumption of evaporated vapors

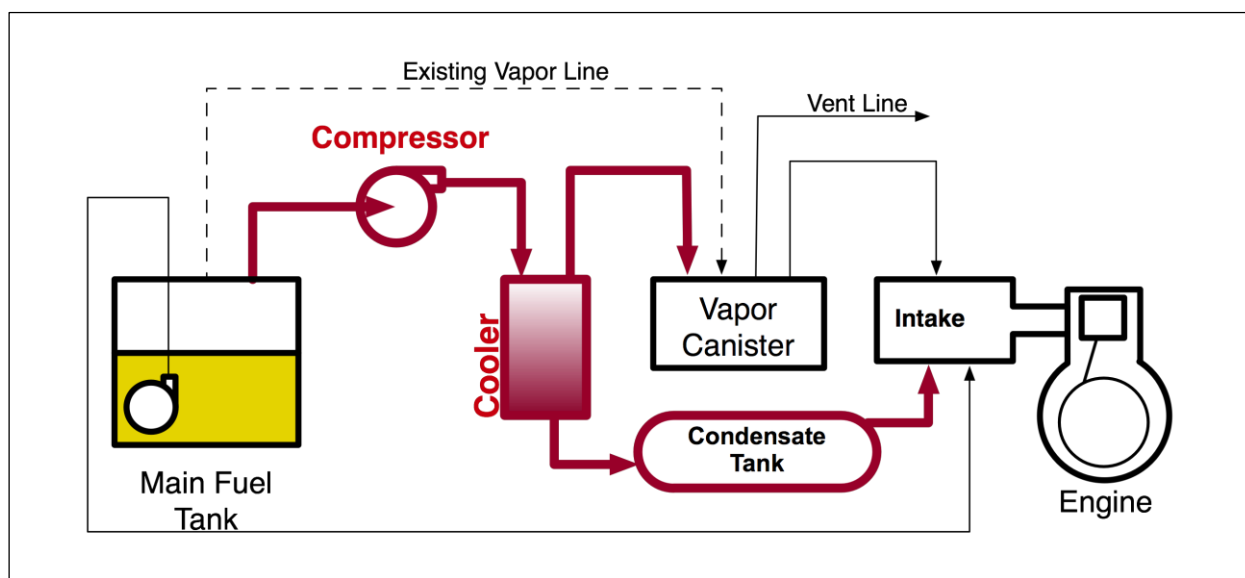


Figure 1. Schematic of On Board Vapor Recovery System

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