



## Description of system:

The Jeep Cherokee XJ is a "sport utility vehicle" with many mechanical, electrical, computer controlled systems. The XJ is designed for general transportation of people and cargo as well as adventures of off-roading and overlanding.

### Mechanical Systems:

Oxygen Sensor  
Flow Sensor  
Injector values

### Control Systems: AND Logic

Input: O2 Sensor Flow Sensor	Output: Spark Plugs Injector values
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### Electrical Systems: Spark Plugs

Injector valves spray fuel into cylinders and spark plugs give spark for fuel/air combustion (Engine continues running) when O2 sensor readings are within range AND Flow sensor senses air flow.

# JEEP CHEROKEE XJ

A MECHATRONIC SYSTEM