

# 4-Stroke Engine Cycle with Gasoline direct Injection

## Intake Stroke



Intake valve opens and allows air to be pulled into cylinder.  
Fuel is sprayed directly into cylinder

## Compression Stroke



Air/Fuel mixture is compressed as piston moves up

## Power Stroke



Spark plug ignites Air/Fuel mixture  
Combustion pushes piston down

## Exhaust Stroke



Exhaust valve opens allowing piston to push exhaust out as it moves up

# Gasoline Direct Injection Engine Cold Start Improvement By

**Didier Musso**



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3

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