

# 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

**B Lingard**



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