

## Vid start försök, motorn går rund men startar inte

### Bränsle

- Tom tank
- Bränslepump
- Insprutningskrets
  - Insprutare
  - Insprutare styrenhet
- Blockerade bränsleledningar / filter
- Fuel pressure regulator
- Crash fuel shutoff valve

### Tändning (bensin)

- Fel i tändningskretsen
  - Styrenhet
  - Kraftsteg
  - Tandspole
  - Tändstifte
  - Throttle position sensor (TPS)
  - *Fördelare*
  - Låg batteri voltage
- Timing
  - Svänghjulets varvräknarsensor (CKP)
  - Camshaft position sensor (CMP/CPS)
  - Kamrem/Kamkedja

### Kompression

- Startmotor
  - Batteriet urladdade
  - Dåligt ström anslutningar
- Låg cylinder kompression
  - Kolvringar
  - Ventiler
  - Topplöckpackning

### Annat

- Immobilizer
- EGR
- MAP/MAF
- Kylvätskans temperatursensor (ECT)
- EVAP
- Cold injector

# Crank, No Start (gasoline engine) Diagnostic Guide

## 1. Test Battery and generator power

## 2. Fuel system

- (a) Test starting with external fuel source (start gas)
  - if engine does not start go to *Ignition tests*
- (b) Injector control
  - i. waveform
  - ii. current draw
- (c) Fuel delivery
  - i. fuel pump activation
  - ii. fuel flow
  - iii. fuel pressure

## 3. Ignition

- (a) Check spark.
  - If good spark is present, go to *Other systems*
  - If cranking RPM signal > 200 RPM, crank and cam sensors are probably functional
- (b) coils
- (c) driver
- (d) power supply and controls:
  - i. fuse
  - ii. relay
  - iii. starter switch
- (e) CKP
- (f) CMP

## 4. Other systems

- (a) Immobilizer
- (b) MAP / MAF
- (c) Throttle body
- (d) IAC
- (e) EGR
- (f) Cold injector
- (g) Coolant temperature sensor
- (h) exhaust restriction
- (i) poor compression
- (j) ignition timing
- (k) cam timing
- (l) PCM cold cranking
- (m) overfueling