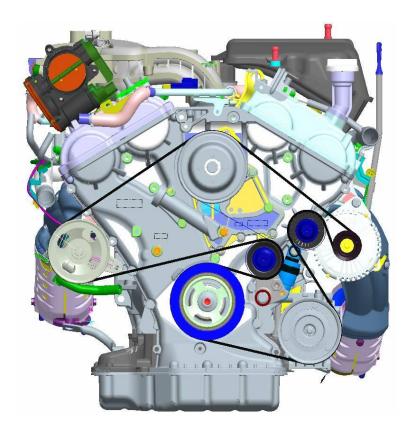
# **GENESIS**

# Lambda Engine



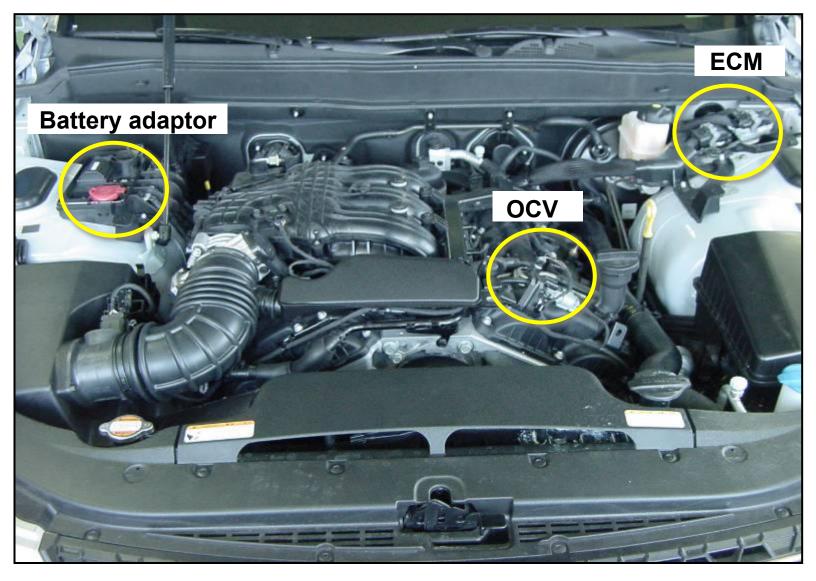


# **Specification**

Items	Lambda (λ) 3.3	Lambda (λ) 3.8
Displacement (cc)	3,342	3,778
Bore x Stroke	92 x 83.8	96 x 87
Compression Ratio	10.4	10.4
Max. Power (PS/rpm)	268/6,200	294/6,200
Max. Torque (kg·f/rpm)	32.2/4,500	36.5/4,500
Idle Speed (rpm)	650±50	650±50
Valve adjuster	MLA(Shimless)	MLA(Shimless)
CVVT	DUAL CVVT	DUAL CVVT
Firing Order	1-2-3-4-5-6	1-2-3-4-5-6
Ignition Timing (Idle)	10±5°	10±5°
Engine Oil Capacity	5.5ℓ	5.5ℓ
Fuel Tank Capacity	73ℓ	73ℓ

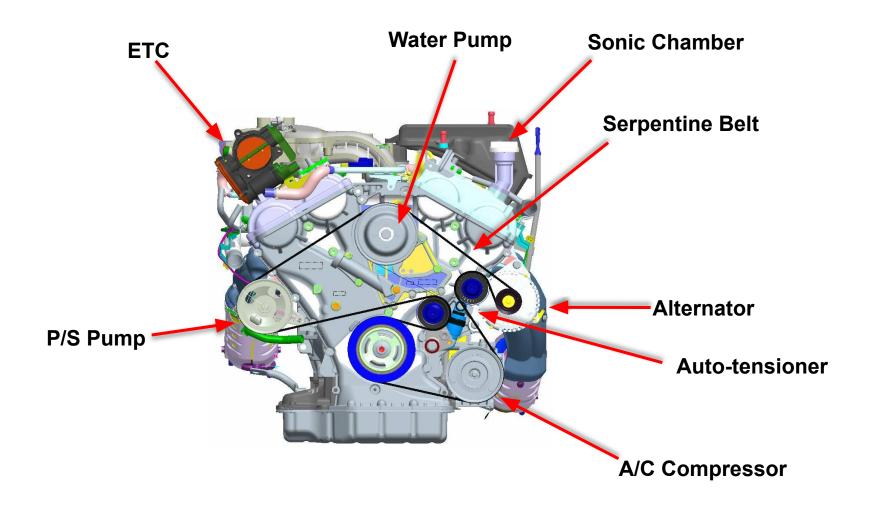


# **Engine Room**



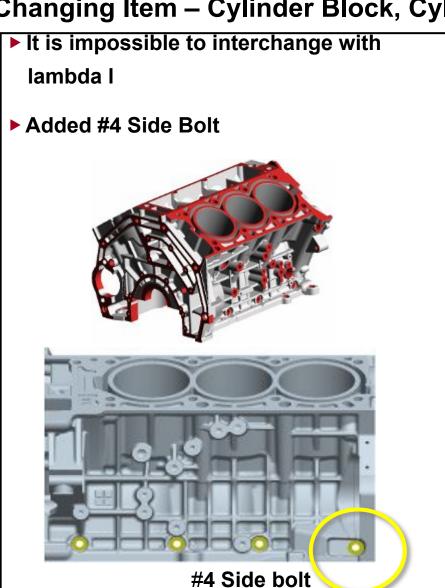


# **Engine Front View**

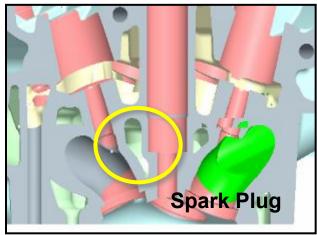


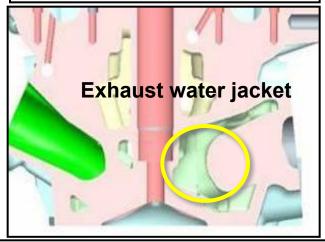


## Changing Item - Cylinder Block, Cylinder Head



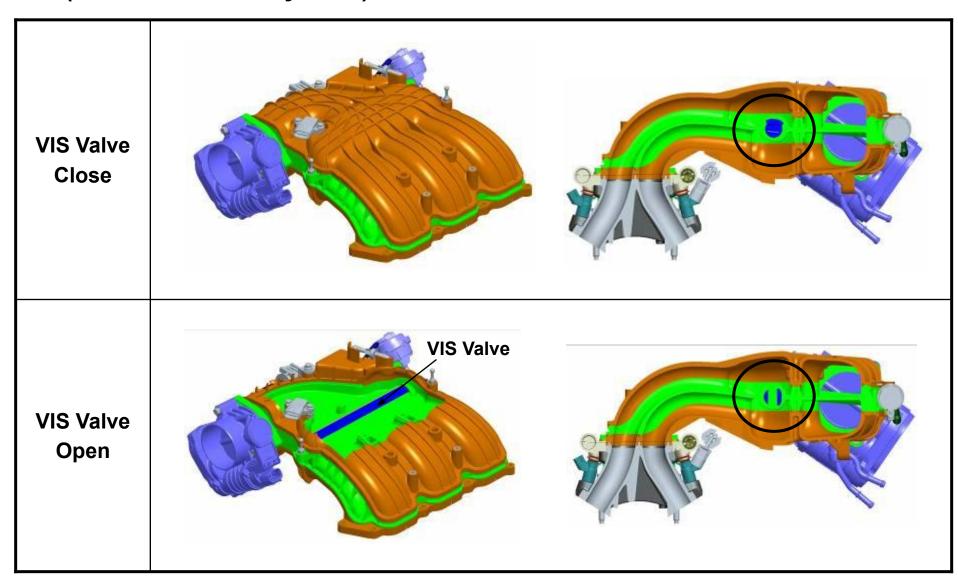
- ▶ It is impossible to interchange with lambda |
- ► M14 Long Reach Spark Plug applied







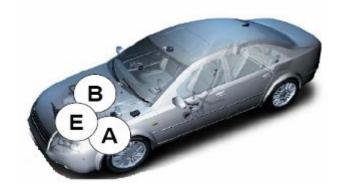
# **VIS (Variable Intake System)**





## **Alternator and Battery system - Concept**

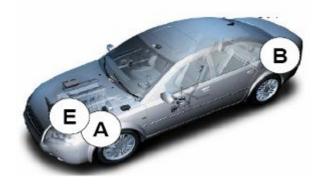
#### □ conventional engine



Battery Temp. ≈ Engine Room Temp.

Battery Voltage ≈ Alternator Voltage

#### **□BH** (Lambda engine)



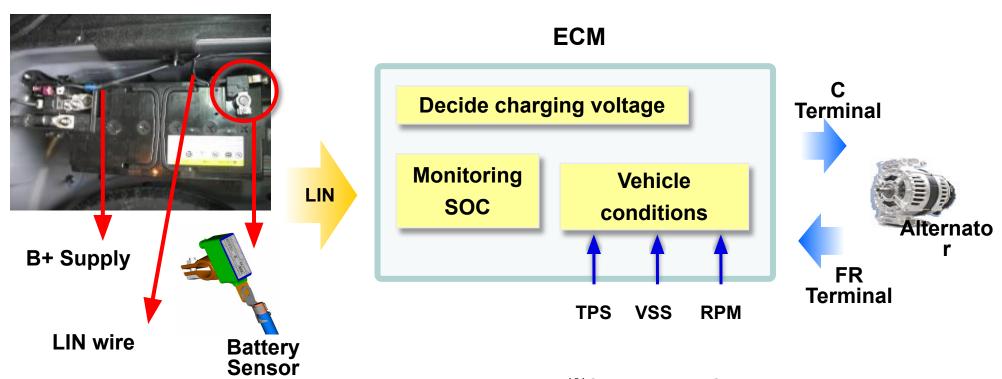
Battery Temp. ≠ Engine Room Temp.

Battery Voltage < Alternator Voltage



## **Battery Sensor**

- ▶ Battery Sensor : Measure Temperature, Voltage, Current
- ► SOC (State Of Charge)

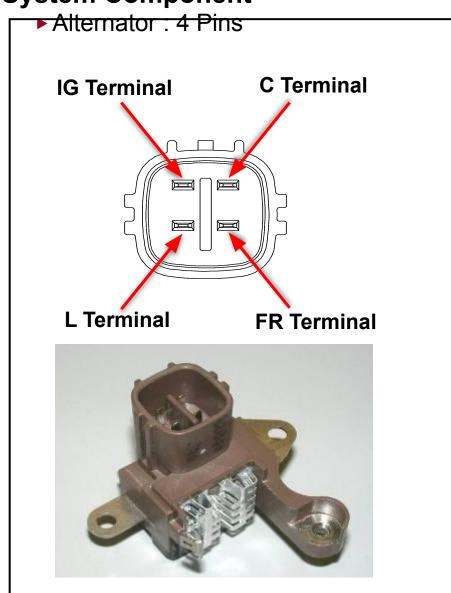


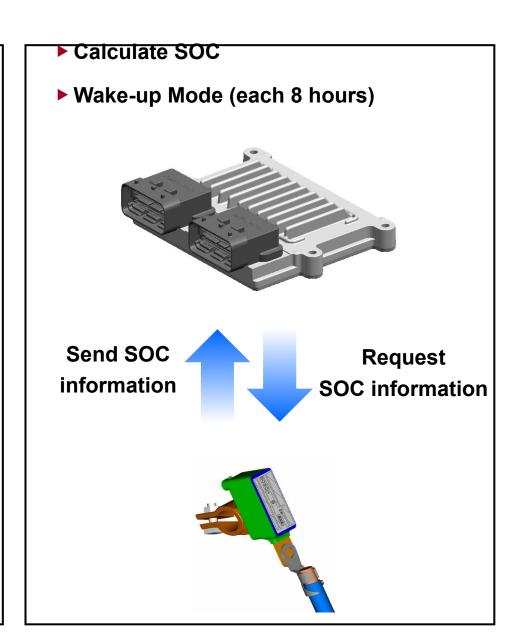
**%**C - Terminal : Communication with alternator

FR - Terminal : Field Coil Reflector.

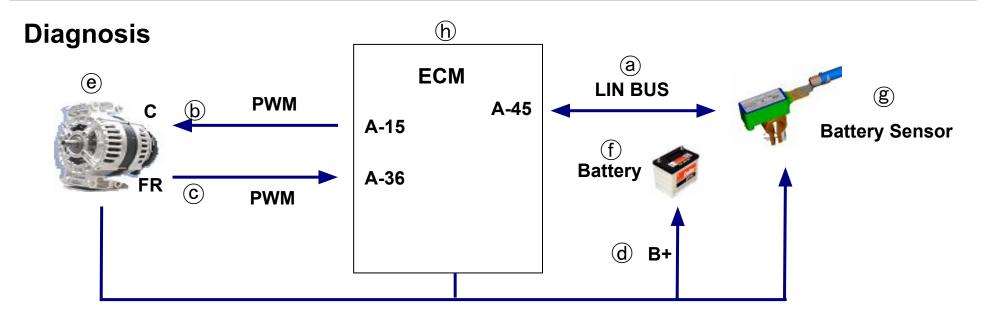


## **System Component**

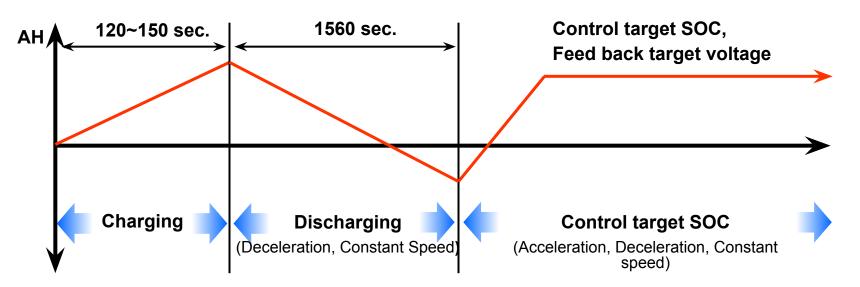








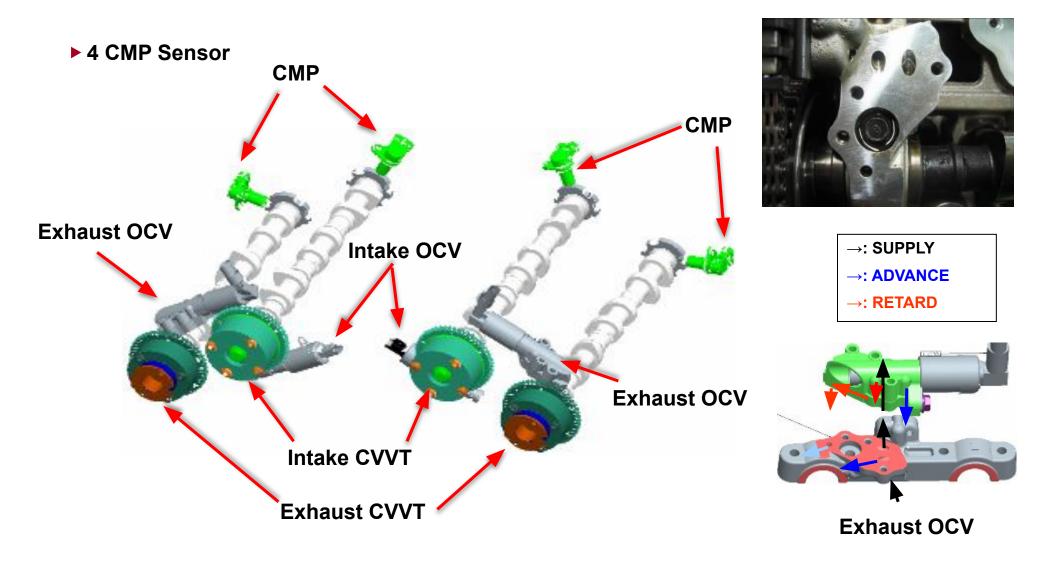
#### **X** Generation of ampere after starting





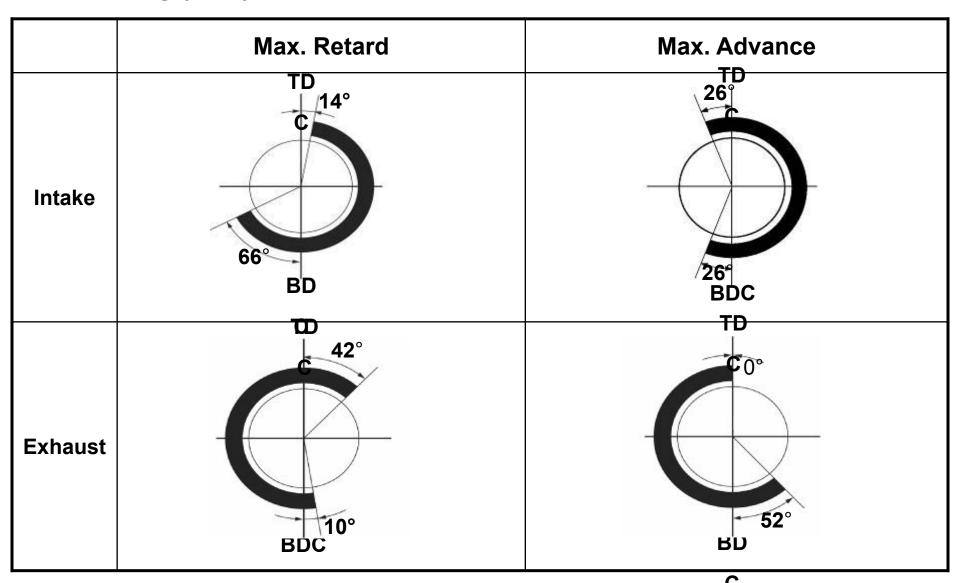
#### **Dual CVVT**

▶ 2 Exhaust CVVT and OCV, 2 Intake CVVT and OCV



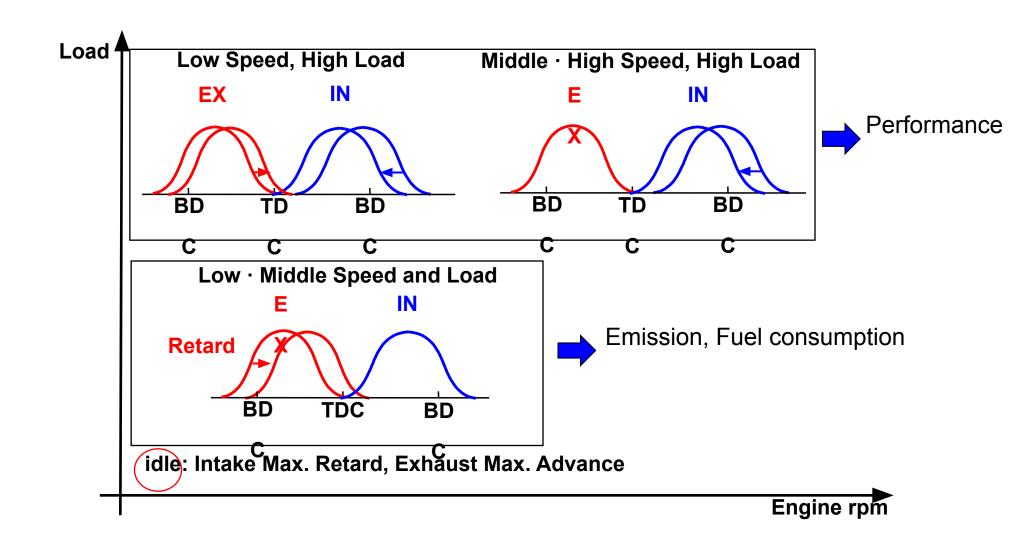


# Valve Timing (3.3L)





## **CVVT** operations





## **CVVT Assembly**

