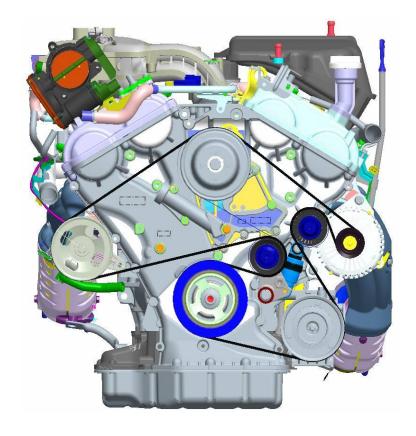
Centennial / Equus

Lambda Engine





Powertrain Variation

				Area		
Engine		Power/Torque	A/T model	DOM	General	Middle East China
Gasoline	Lambda 3.8L MPI	290/36.5	B600 (AISIN)	•		•
	Tau 4.6L MPI	363/46.0	6HP26 (ZF)	•	•	•

X VI Limousine (Tau 5.0L MPI) may not be exported.

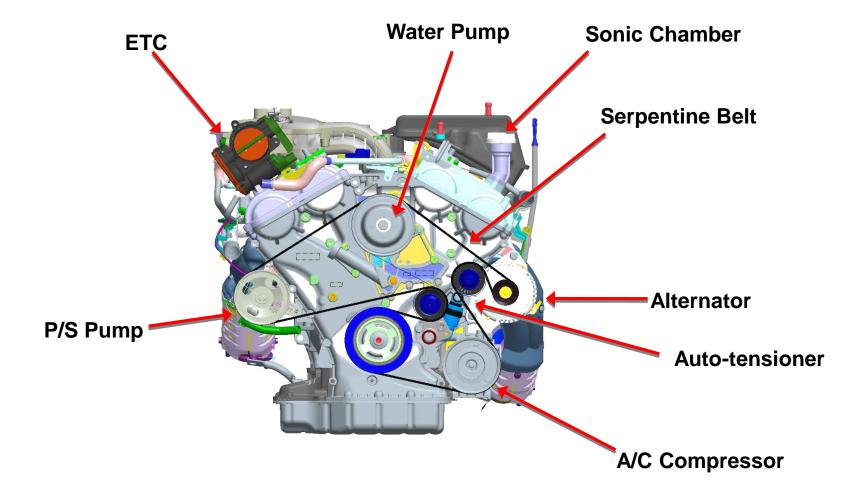


Specification

Items	Lambda (λ) 3.8		
Displacement (cc)	3,778		
Bore x Stroke	96 x 87		
Compression Ratio	10.4		
Max. Power (PS/rpm)	290/6,200		
Max. Torque (kg-f/rpm)	36.5/4,500		
Idle Speed (rpm)	650±50		
Valve adjuster	MLA (Shim-less)		
CVVT	DUAL CVVT		
Firing Order	1-2-3-4-5-6		
Ignition Timing (Idle)	10±5°		
Engine Oil Capacity	5.5ℓ		
Fuel Tank Capacity	78ℓ		



Engine Front View

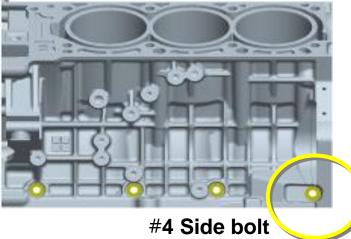




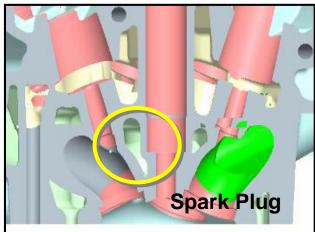
Changing Item – Cylinder Block, Cylinder Head

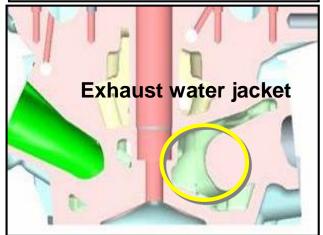
- ► It is impossible to interchange with old lambda
- ► Added #4 Side Bolt





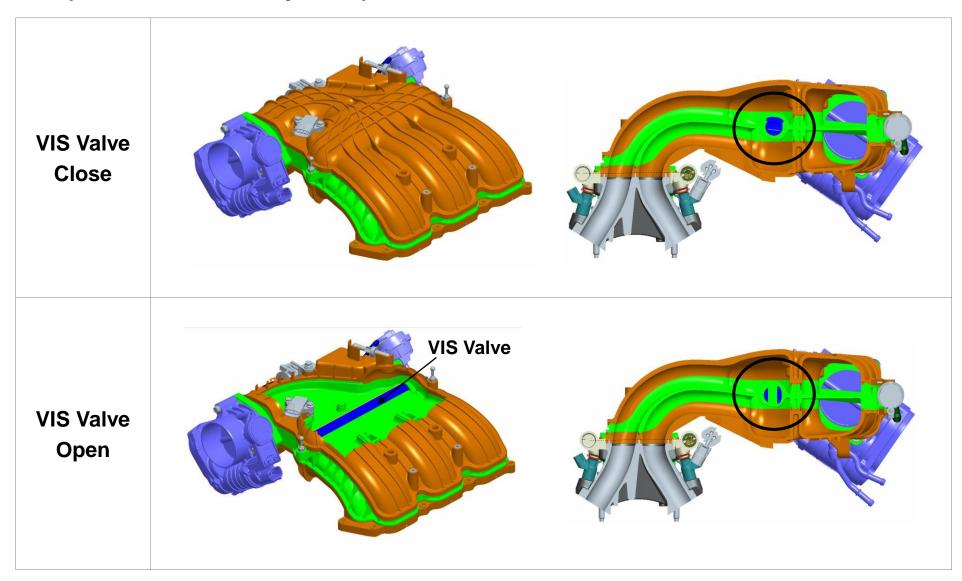
- ► It is impossible to interchange with old lambda
- M14 Long Reach Spark Plug applied







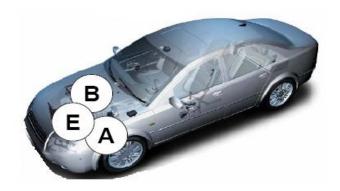
VIS (Variable Intake System)





Alternator and Battery system - Concept

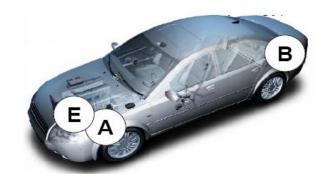
→ conventional engine



Battery Temp. ≈ Engine Room Temp.

Battery Voltage ≈ Alternator Voltage

→VI (Lambda engine)



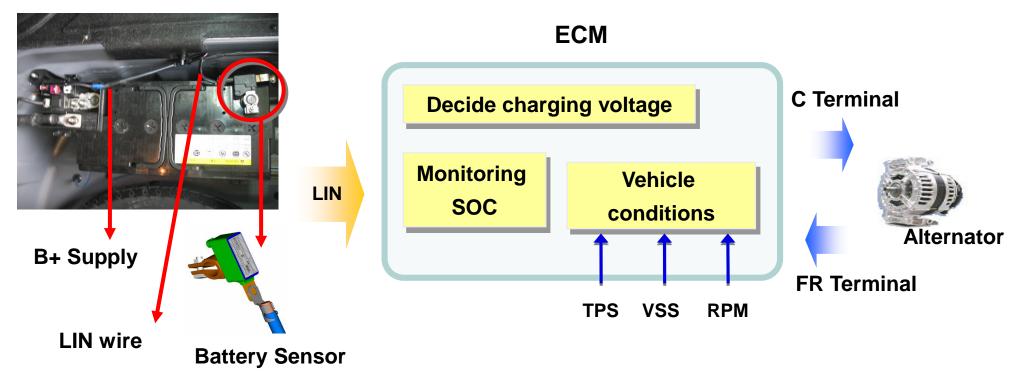
Battery Temp. ≠ Engine Room Temp.

Battery Voltage < Alternator Voltage



Battery Sensor

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

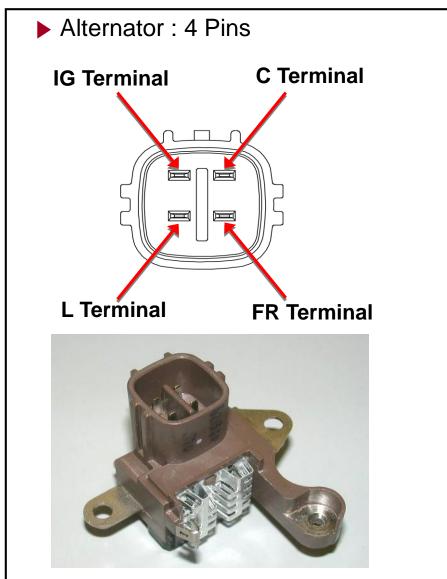


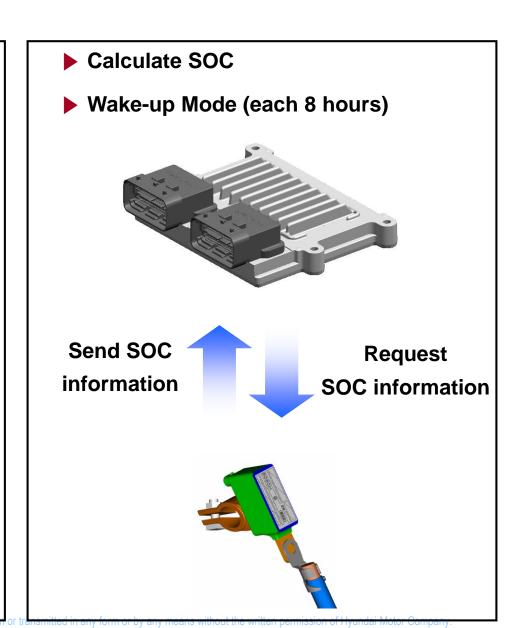
※C - Terminal : Communication with alternator

FR - Terminal : Field Coil Reflector.

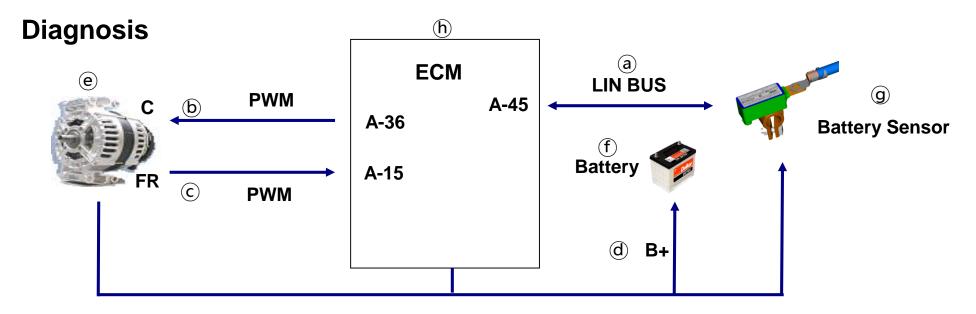


System Component

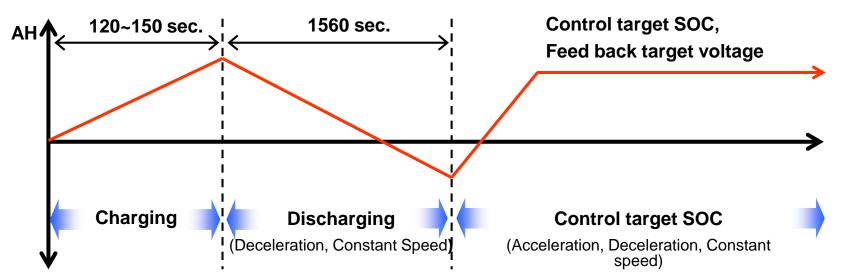








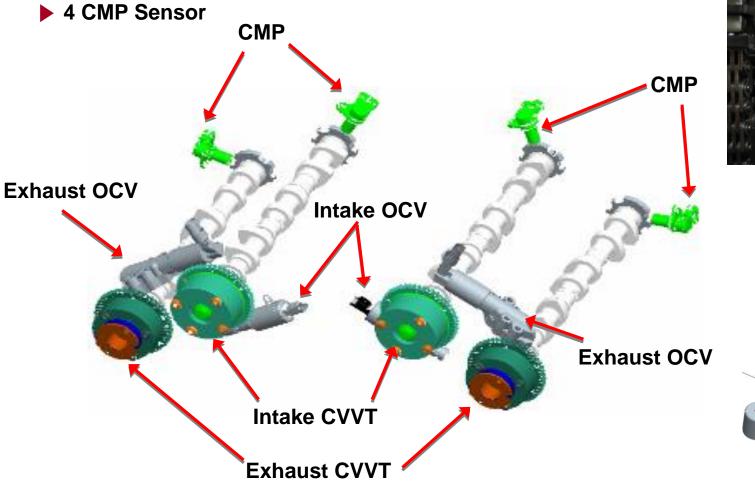
X Generation of ampere after starting







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

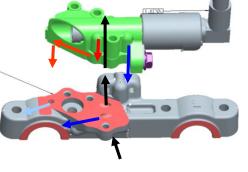




 \rightarrow : SUPPLY

→: ADVANCE

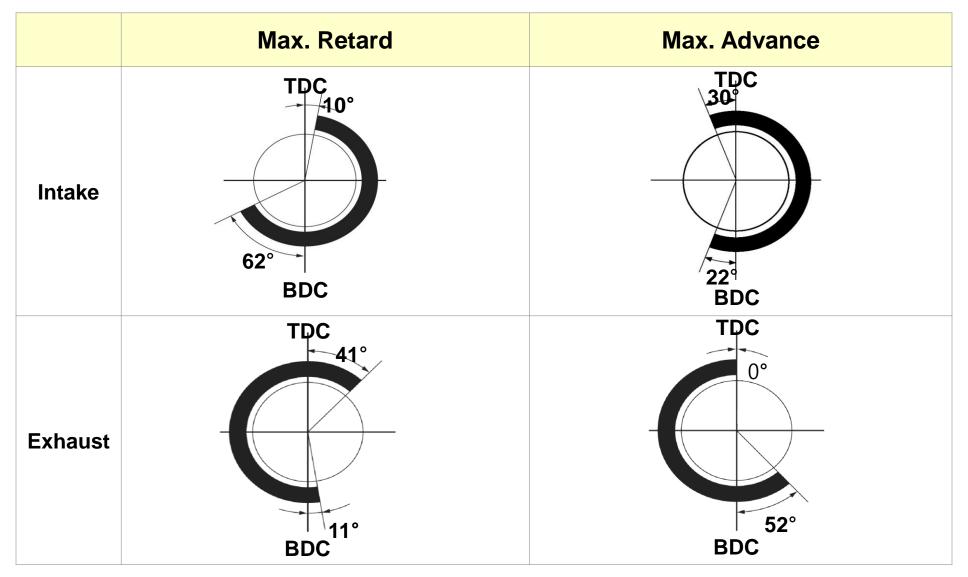
→: RETARD



Exhaust OCV

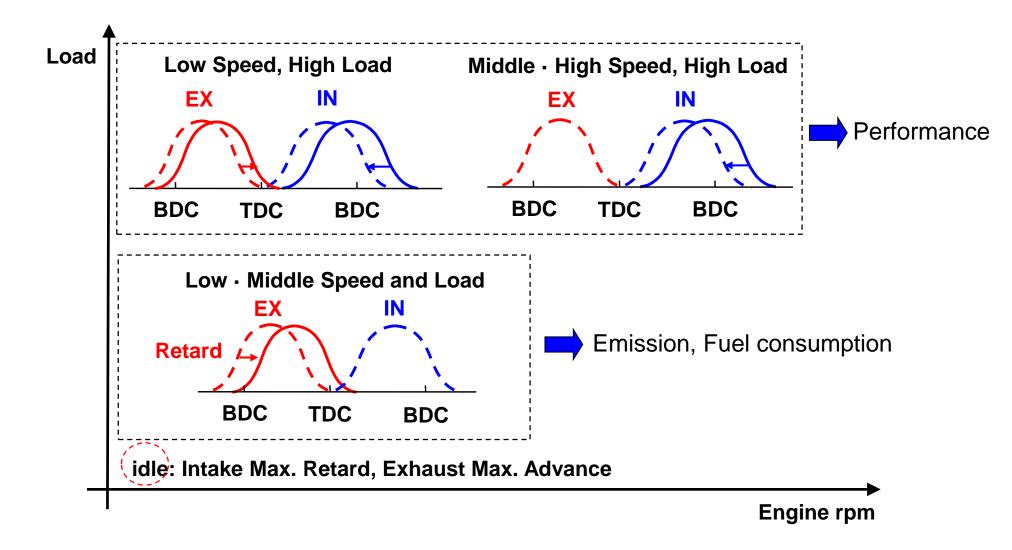


Valve Timing (3.8L)





CVVT operations





CVVT Assembly

