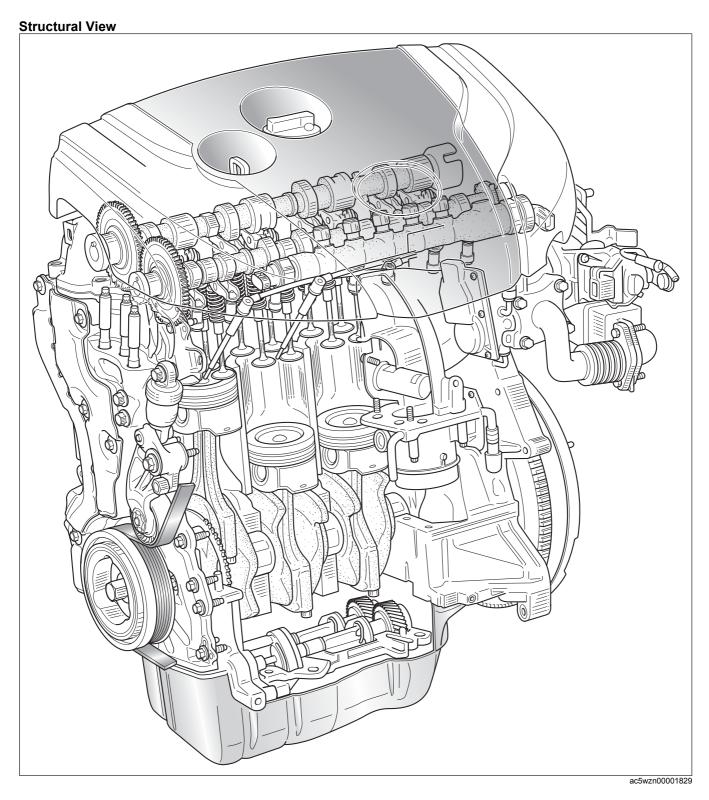
MECHANICAL [SKYACTIV-D 2.2]

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Outline

- For SKYACTIV-D 2.2, the following is performed to lower fuel consumption.
 - Low compression ratio
 - Combustion efficiency by lower compression ration (14.0)
 - Weight reductions
 - Aluminum alloy cylinder block adopted
 - · Exhaust manifold integrated cylinder heads adopted
 - Weight reduction and mechanical resistance loss improvements
 - Piston shape optimized
 - Narrowed down crankshaft journal
- The SKYACTIV-D 2.2 has adopted an IDEVA for improved ignition stability during cold engine starts.
- A maintenance-free design for valve clearance has been achieved with the adoption of the HLA.



Structure• Consists of the following parts:

Cylinder head cover	(See CYLINDER HEAD COVER [SKYACTIV-D 2.2].)
Cylinder head	(See CYLINDER HEAD [SKYACTIV-D 2.2].)
Cylinder head gasket	(See CYLINDER HEAD GASKET [SKYACTIV-D 2.2].)
Cylinder block	(See CYLINDER BLOCK [SKYACTIV-D 2.2].)
Crankshaft	(See CRANKSHAFT, MAIN BEARING [SKYACTIV-D 2.2].)
Piston	(See PISTON, PISTON RING, PISTON PIN [SKYACTIV-D
	2.2].)

Connecting red		(See CONNECTING ROD, CONNECTING ROD BEARING
Connecting rod		[SKYACTIV-D 2.2].)
Engine front cover		(See ENGINE FRONT COVER [SKYACTIV-D 2.2].)
Crankshaft pulley		(See CRANKSHAFT PULLEY [SKYACTIV-D 2.2].)
Drive belt		(See DRIVE BELT [SKYACTIV-D 2.2].)
\		(See VALVE, VALVE SPRING, VALVE SEAL, VALVE GUIDE
Valve		[SKYACTIV-D 2.2].)
IDEVA	111.4	(See HYDRAULIC LASH ADJUSTER, ROCKER ARM
(See INTAKE	HLA	[SKYACTIV-D 2.2].)
STROKE EGR	Da alvan anna	(See HYDRAULIC LASH ADJUSTER, ROCKER ARM
USING DOUBLE	Rocker arm	[SKYACTIV-D 2.2].)
EXHAUST VALVE	Camshaft	(See CAMSHAFT [SKYACTIV-D 2.2].)
ACTUATION		
SYSTEM (IDEVA)	001/	(C OIL CONTROL) (AL) /F (OO) () [OIC (A OT) / P O OI)
[SKYACTIV-D	OCV	(See OIL CONTROL VALVE (OCV) [SKYACTIV-D 2.2].)
2.2].)		
Timing chain		(See TIMING CHAIN, CHAIN TENSIONER [SKYACTIV-D
Timing chain		2.2].)
Balancer unit		(See BALANCER UNIT [SKYACTIV-D 2.2].)
Engine mount		(See ENGINE MOUNT [SKYACTIV-D 2.2].)