

ENGINE FEATURES

B3E010002000T02

Mechanical

Improved power performance	<ul style="list-style-type: none"> Variable valve timing mechanism adopted (ZJ, Z6)
Reduced weight	<ul style="list-style-type: none"> Aluminum alloy cylinder head and cylinder block adopted Aluminum alloy engine mount bracket adopted Plastic cylinder head cover adopted (LF)
Reduced engine noise and vibration	<ul style="list-style-type: none"> Silent timing chain adopted Crankshaft pulley with torsional damper adopted Pendulum type engine mount adopted Highly rigid aluminum cylinder block and lower cylinder block adopted (ZJ, Z6) Deep, skirt-type cylinder block adopted, composed of an integrated main bearing cap together with a ladder frame structure (LF)
Improved serviceability	<ul style="list-style-type: none"> Drive belt auto tensioner adopted Timing chain adopted Engine front cover with service holes adopted Serpentine type drive belt adopted (ZJ, Z6) Stretch-type A/C drive belt adopted (LF)

Lubrication

Reduced noise	<ul style="list-style-type: none"> Aluminum alloy oil pan adopted (LF)
Reduced weight	<ul style="list-style-type: none"> Plastic oil strainer adopted Aluminum alloy oil pump cover adopted (ZJ, Z6)
Improved lubricity	<ul style="list-style-type: none"> Trochoid gear type oil pump adopted Oil jet valves adopted

Cooling System

Improved reliability	<ul style="list-style-type: none"> Degassing type coolant reserve tank adopted
Reduced weight	<ul style="list-style-type: none"> Cross flow type radiator with aluminum core and plastic tank adopted Stainless steel thermostat with plastic thermostat cover adopted (LF)
Miniaturization	<ul style="list-style-type: none"> Built-in type water pump adopted
Reduced engine noise and vibration	<ul style="list-style-type: none"> Cooling fan motor component consists of the cooling fan motor and fan control module adopted

Intake-air System

Improved engine torque and output	<ul style="list-style-type: none"> Variable intake-air system adopted (Z6)
Improved emission performance	<ul style="list-style-type: none"> Variable tumble system adopted

Fuel System

Improved serviceability	<ul style="list-style-type: none"> Nylon tubes adopted for fuel hoses in the engine compartment and around the fuel tank, and quick release connectors adopted for joints
Reduction of	<ul style="list-style-type: none"> Returnless fuel system adopted

evaporative gas	
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Emission System

Reduction of evaporative gas	• Evaporative purge control adopted
Improved emission performance	• Exhaust gas recirculation (EGR) system adopted

Charging System

Miniaturization	• Regulatorless generator with built-in power transistor adopted
Improved reliability	• Battery duct adopted (LF)

Ignition System

Improved reliability	• Independent ignition control system with distributorless ignition coil adopted
Improved durability	• Spark plug with an iridium alloy center electrode and platinum tip ground electrode adopted

Starting System

Improved startability	• Reduction type starter adopted
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Control System

Improved driving performance	• Variable valve timing control adopted
Wiring harness simplification	• Controller area network (CAN) adopted
Improved theft deterrence	• Starter cut-off control adopted