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Press Release

Maruti Suzuki unveils new Ritz K12M engine at Gurgaon plant

India's first ever BS-IV compliant engine with best in class fuel efficiency.

Gurgaon, April 14, 2009: Maruti Suzuki, India's number one car-maker, unveiled the all-new K12M engine for its soon-to-be-launched hatchback Ritz. The K12M is BS-IV compliant engine. This is the first time that a BS-IV compliant engine will power any Passenger car in the country. *This new 1197cc all aluminum engine is the second in the Kseries and retains the technological superiority and fuel efficiency of the K10B engine which powers Maruti Suzuki A-star.*

Unveiling the new engine Mr. Shinzo Nakanishi, Managing Director & CEO, Maruti Suzuki, said, "*K12M engine is another example of Maruti Suzuki's commitment to take engine technology in India to the next level. This is in line with parent company, Suzuki Motor Corporation's focus on maximizing the environmental benefits of fully proven technologies. For this, Suzuki is fully exploiting the know-how gained in over 50 years of compact-car production. K-series engine is the latest innovation coming from this focus. K series engines are not just fuel efficient but also low on CO₂ emissions. The K12M engine further strengthens Maruti Suzuki's efforts for fuel efficient, green engine technology for customers in India.*"

The K12M engine is being manufactured in Maruti Suzuki's brand new state-of the-art engine manufacturing facility inside its Gurgaon plant, which was inaugurated last year with the launch of A-star's K10B engine.

The K12M engine reflects the company's continued focus on investment in long term strategic projects which include expansion of manufacturing capacity and introduction of new engine technology.

The first car to be fitted with this brand new K12M engine will be the forthcoming premium compact car Maruti Suzuki Ritz. The Ritz will be yet another compact car to join the company's A2 (compact car) offering that include Alto, Zen Estilo, A star, Wagon R and Swift Petrol and Diesel. The Ritz is in advanced stage of preparation for a formal launch shortly. With a new technology engine, the Ritz will be positioned in the upper end of the growing compact car segment.

The K12M engine has been specifically designed for Indian applications. Maruti Suzuki's engineers worked as part of Suzuki's Engine Design team for the design, calibration and testing of the engine in Japan and in India. This is a step forward in enhancing the engine development capability. The engine promises to be best in class fuel efficient, high performance, low emission, light weight, with lower NVH (Noise, Vibration & Harshness).

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Like the K10B engine, plastic parts have been extensively used in K12M engine as well. The skirt area of the piston has been shortened to make the aluminum engine lighter, whereas the resin-coated piston helps reduce friction and increase fuel efficiency.

Some of the salient features of the all new K12M are:

- ◆ All Aluminum low-weight engine with best-in-class fuel efficiency
- ◆ Innovative Rocker-less DOHC cam shaft, Plastic Intake Manifold and Offset Crank shaft with low tension Rings to reduce losses and improve fuel efficiency.
- ◆ Smart Distributor Less Ignition (SDLI) system with dedicated plug top coils, High pressure Fuel system and Advanced Injectors for superior atomization to provide uniform and optimized combustion for better performance
- ◆ Optimized Cylinder block, Light Piston and Nut-less Con Rod for light weight configuration
- ◆ Improved engine stiffness and use of advanced technology like silent timing chain to improve NVH characteristics

Lower running costs:

- ◆ *Higher Grade Engine Oil:* Improves first changeover time from 1,000 Km to 10,000 Km
- ◆ *Increased Spark Plug Life:* Spark Plug change over time has been changed from current 20,000 Km to 40,000 Km
- ◆ *Silent Timing Chain:* Longer life in comparison to conventional Belt Design
- ◆ *Valve Clearance Adjustment:* Due to Tappet Design, Valve clearance re-adjustment frequency has been reduced.

Engine Specifications:

No of Cylinders	4
Capacity (cc)	1197
Power (ps @ rpm)	85@6000
Torque (Nm @ rpm)	113@4500
Compression Ratio	10.:1
Bore (mm) x Stroke (mm)	73 x 71.5
Valve configuration	DOHC
No of valves (per cylinder)	4
Valve Lifting mechanism	Shim-less tappet
Cam Drive	Silent Chain
Engine Oil	Semi Synthetic

For Maruti Suzuki India Limited


Compliance Officer