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cd engine toyota pz engine excerpt the a series engines are a family of straight 4 internal combustion engines with displacement from 1.3 l to 1.8 l produced by toyota motor corporation the series has cast iron engine blocks and aluminum cylinder heads the development of the series began in the late 1970s when toyota wanted to develop a completely new engine for the toyota tercel successor of toyota s k engine the goal was to achieve good fuel efficiency and performance with a modern design the a series includes the first mass production dohc four valve per cylinder engine the 4a ge and a later version of the same motor was one of the first production five valve per cylinder engines toyota joint venture partner tianjin faw xiali still produces the 1.3 l 8a and recently resumed production of the 5a the 1.5 l 1a was produced between 1978 and 1980 all variants were belt driven 8 valve counter flow sohc engine popular mechanics inspires instructs and influences readers to help them master the modern world whether it s practical diy home improvement tips gadgets and digital technology information on the newest cars or the latest breakthroughs in science pm is the ultimate guide to our high tech lifestyle p pl margin 0 0px 0 0px 0 0px 0 0px font 11 0px arial the celica as well as a much loved road car was the first japanese model to claim the world rally championship crown this book tells the full story of the seven celica generations from 1970 to date and that of its close cousin the supra with detailed coverage of all the road cars from the world s leading markets and the story surrounding the many race and rally models based on the two vehicle lines written with the full co operation of the factory in japan and various official sales organizations from around the globe this truly is the definitive history of these sporting toyotas written by an acclaimed motoring historian with full co operation form the factory this is an extremely comprehensive reference containing well over 250 mainly color photographs contemporary advertising brochures and exhaustive appendices complete the package making this a vital addition to any enthusiast s library

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1988

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