



# Bmw M47 Diesel Engine

**Hermann Hiereth, Peter Prenninger**



## **Bmw M47 Diesel Engine:**

**Rover 75 and MG ZT** James Taylor,2014-03-31 From the moment of its launch in 1998 the Rover 75 caught the public's imagination Here at last was a car that felt like traditional Rovers and had been designed in Britain Rover 75 and MG ZT charts the evolution of the models from the early 1990s onwards including full production histories and comprehensive specification details Contents include the development and production of the Rover 75 under BMW in the 1990s becoming the MG Rover Group from BMW to Phoenix Venture Holdings expanding the Rover 75 with Longbridge Rover Saloons and Tourers the MG models of the new millennium the ZT and ZT T monogram 75 the five millionth Rover a facelift for the cars with the new V8 engines moving production to China and the end of the MG Rover Group Illustrated with 267 colour photographs this is essential reading for motoring enthusiasts and fans of the Rover brand *Charging the Internal*

*Combustion Engine* Hermann Hiereth,Peter Prenninger,2007-11-04 This book covers all aspects of supercharging internal combustion engines It details charging systems and components the theoretical basic relations between engines and charging systems as well as layout and evaluation criteria for best interaction Coverage also describes recent experiences in design and development of supercharging systems improved graphical presentations and most advanced calculation and simulation tools

**BMW 3-Series 50 Years** Tony Lewin,2025-11-04 Trace the 50 year success story of BMW's 3 Series in this luxuriously produced and stunningly illustrated volume From its launch in 1975 with the 316 the 3 Series has moved from strength to strength defining what it means to be a performance sedan coupe wagon Beloved by enthusiasts worldwide it is the series benchmarked by all other manufacturers Whether daily driven tracked or raced BMW's 3 Series delivers the goods BMW 3 Series 50 Years charts the 3 Series design and technical evolution from the 1970s to today from the clean classic two box design of the E21 and E30 to the handsome E46 to today's sophisticated G20 The book features A detailed history of the BMW 3 Series by automotive historian and industry analyst Tony Lewin First person interviews with key designers and engineers Photography from BMW's archive as well as commissioned contemporary photography Sidebars diving into interesting stories covering design related models like the Z cars and the collector perspective The 3 Series is a performance and competition story as well with no car more storied or critical to BMW's reputation than its vaunted M3 Racing and M3s play out across the book's chapters providing a performance perspective across the 3 Series 50 years With decades of showroom performance and competition success BMW's 3 Series in all its permutations shows no signs of slowing down BMW 3 Series 50 Years details the full story in a lively volume deserving space in every enthusiast's collection

**Autocar** ,1998 **The Woodenboat** ,1987 [Recent Developments in BMW's Diesel Technology](#) F. Steinparzer,2003 The image of BMW is very strongly associated to high power sports biased luxury cars in the premium car segment however particularly in the United States and some parts of Asia the combination of a car in this segment with a diesel engine was up until now almost unthinkable I feel sure that many people in the USA are not even aware that BMW produces diesel powered

cars In Europe there is a completely contrary situation which driven by the relative high fuel price and the noticeable difference between gasoline and diesel prices there has been a continuous growth in the diesel market since the early eighties During this time BMW has accumulated more then 20 years experience in developing and producing powerful diesel engines for sports and luxury cars BMW started the production of its 1st generation diesel engine in 1983 with a 2 4 l turbocharged IDI engine in the 5 series model range With a specific power of 35 kW l this was the most powerful diesel engine on the market at this time In 1991 BMW introduced the 2nd generation diesel engine beginning with a 2 5 l inline six followed in 1994 by a 1 7 l inline four All engines of this 2nd BMW diesel engine family were turbocharged and utilized an indirect injection combustion system With the availability of high pressure injection systems such as the common rail system BMW developed its 3rd diesel engine family which consists of four different engines The first was the 4 cylinder for the 3 series car in the spring of 1998 followed by the 6 cylinder in the fall of 1998 and then in mid 1999 by the worlds first V8 passenger car diesel with direct injection Beginning in the fall of 2001 with the 4 cylinder BMW reworked this DI engine family fundamentally Key elements are an improved core engine design the use of the common rail system of the 2nd generation and a new engine control unit with even better performance Step by step these technological improvements were introduced to production for all members of this engine family and in all the different vehicle applications In the next slide you can see the production volume of diesel engines by BMW From the 1st family we produced approx 260 000 units over eight years and from the 2nd family approx 630 000 units were produced also during an eight year period How successful the actual engine family with direct injection is can be seen in the increase of the production volume to 330 000 units for the year 2002 alone The reason for this is that in addition to the very low fuel consumption this new engines provide excellent driving characteristics and a significant improvement in the level of noise and vibration Page 2 of 5 In 2002 26% of all BMW cars worldwide and nearly 40% in Europe were produced with a diesel engine under the hood In the X5 we can see the biggest diesel success rate Of all the X5 vehicles produced 35% Worldwide and 68% in Europe are powered by a diesel engine

[Bmw Engines](#) Source Wikipedia,2013-09 Please note that the content of this book primarily consists of articles available from Wikipedia or other free sources online Pages 39 Chapters BMW M20 BMW M62 List of BMW engines BMW N54 BMW M30 BMW M10 BMW N52 BMW M52 BMW M50 BMW OHV V8 engine BMW N47 BMW S85 BMW M57 BMW M60 Prince engine BMW N63 BMW M47 BMW N62 BMW S65 BMW M88 BMW S54B32 Tritec engine BMW N53 BMW M42 BMW M54 BMW M56 BMW M43 BMW M12 BMW M70 BMW N55 BMW N57 BMW N46 BMW N73 BMW N74 BMW M40 BMW M51 BMW Goldfish V16 BMW N42 BMW 247 engine BMW M67 BMW M73 P60B40 BMW M44 BMW M21 BMW N43 BMW N45 BMW M41 BMW S14 BMW M06 BMW M78 BMW M102 BMW M106 Excerpt The M20 is an inline 6 piston engine by BMW Initially designated M20 the 12 valve belt driven SOHC design was introduced in the 1977 BMW 520 6 and 320 6 as an entirely new design With displacements ranging from 2 0 to 2 7 liters it was the little brother to the larger BMW M30

engine It had 91 mm 3 6 in bore spacing instead of 100 mm 3 9 in of the M30 It was intended to replace the larger displacement 4 cylinder motors and was born out of BMW s conviction that a small six had more development potential than a large four i e 2 liters Powering the E21 and E30 3 Series as well as E12 E28 and E34 5 Series cars it was produced for nearly two decades with the last examples powering the E30 325i touring built until April 1993 By that time the newer twin cam M50 engines with 4 valves per cylinder had already been used in the E36 and E34 for a couple of years Three different head castings were used over the engine s production run The earliest was 1264200 aka the 200 These were used in all e21 320 6 and 323i and e12 520 6 engines and later in the e28 and e30 eta engines eta denoting the efficiency version of the engine with a lower engine redline amongst other focused differences aimed at increasing fuel economy The next version was 1277731 aka the 731 This head

*Three, Four and Six Cylinder Series 71 Two-cycle Diesel Engines with Various Adaptations* General Motors Corporation. Detroit Diesel Engine Division,1951     Study Guide for Introduction to Diesel Engines II Gerald W. Sielaff,1966     **Detroit Diesel Engines** General Motors Corporation. Detroit Diesel Engine Division,1967     Detroit Diesel Engines General Motors Corporation. Detroit Diesel Engine Division,1967     **Engine, Diesel, Two-cycle, General Motors Model 6-110 (62300RA)** United States. Department of the Army,1954     *Diesel Engine Catalog* Rex W. Wadman,1953     **The Diesel Engine** Dorsey Alfred Lyon,Herbert Haas,Oliver Bowles,Oliver Caldwell Ralston,1918     **Three, Four and Six Cylinder Series 71 Two-cycle Diesel Engines Maintenance Manual** ,1947     In-Line 71 Engines GM Diesel Maintenance General Motors Corporation. Detroit Diesel Engine Division,1964     *Diesel Series 71, Three, Four, and Six Cylinder Single and Multiple Engine Units* General Motors Corporation. Detroit Diesel Engine Division,1956     *Diesel and High-compression Gas Engines: Fundamentals* Edgar Jesse Kates,1954     **GM Diesel Family of Construction & Industrial Engines** General Motors Corporation. Detroit Diesel Engine Division,1962     **Two-cycle Diesel Engine, Series 71** General Motors Corporation. Detroit Diesel Engine Division,1941

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