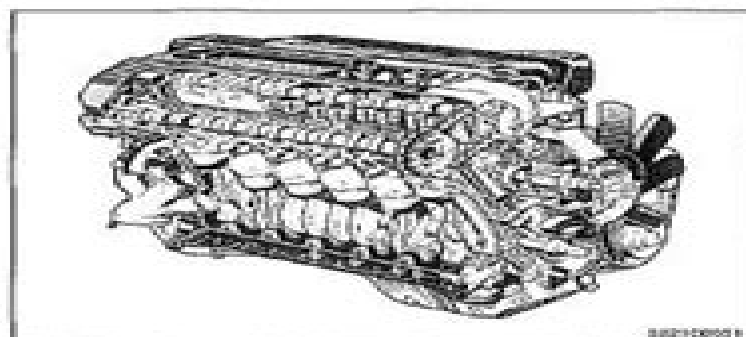


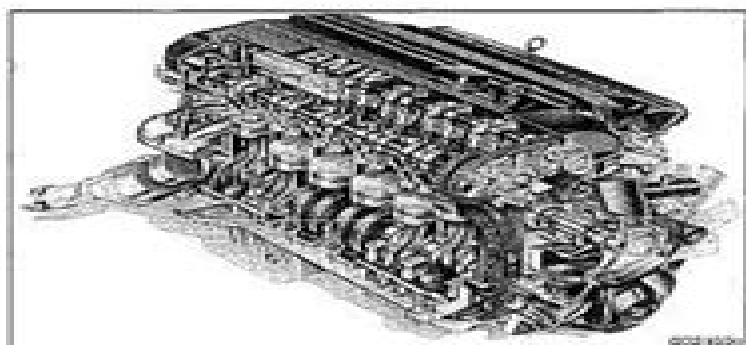
Engine identifying features



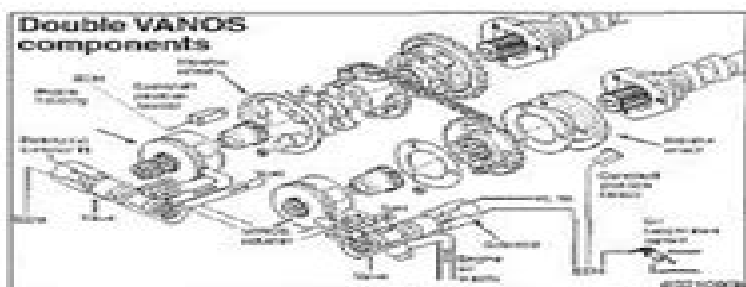
- A** The M52 engine (MY97-98 528i) used a single on-off variable intake valve timing system (called VANOS). The cylinder block is cast iron and the cylinder head is aluminum. The engine management system is Siemens MS 41.1 and features NGK-type (0-5 volt) oxygen sensors.

NOTE —

VANOS is an acronym based on the German words Variable Nockenwellen Steuerung (variable camshaft timing).



- A** The M52 TU engine (MY99-00 528i) and the M54 engines (MY01-02 525i/530i) are fitted with double VANOS. The engine blocks are constructed of aluminum alloy with cast iron cylinder sleeves.



- A** The double VANOS (variable camshaft control) system incorporates true variable control of both the intake and exhaust camshafts, as compared to the single VANOS system on the M52 engine (on/off control of the intake camshaft only).

The M54 engines use a fully electronic throttle control (drive by wire). There is no accelerator cable connecting the throttle pedal to the throttle housing in these cars.

E39 Diesel Service Manual

Bentley Publishers



E39 Diesel Service Manual:

BMW 5 Series (E39) Service Manual Bentley Publishers,2003 The ultimate service manuals Bentley manuals are the only comprehensive single source of service information and specifications available for BMW cars These manuals provide the highest level of clarity and completeness for all service and repair procedures Enthusiasts do it yourselfers and professional technicians will appreciate the quality of photographs and illustrations theory of operation and accurate step by step instructions If you are looking for better understanding of your BMW look no further than Bentley Even if you do not repair your own vehicle knowledge of its internal workings will help you when discussing repairs and maintenance with your professional automotive technician This Bentley Manual is the only comprehensive single source of service information and specifications available specifically for BMW 5 Series from 1997 to 2002 The aim throughout this manual has been simplicity clarity and completeness with practical explanations step by step procedures and accurate specifications Whether you are a professional or a do it yourself BMW owner this manual will help you understand care for and repair your E39 5 Series Though the do it yourself BMW owner will find this manual indispensable as a source of detailed maintenance and repair information the BMW owner who has no intention of working on his or her car will find that reading and owning this manual will make it possible to discuss repairs more intelligently with a professional technician

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