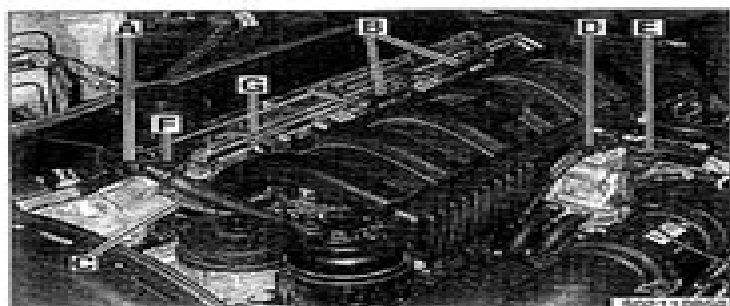


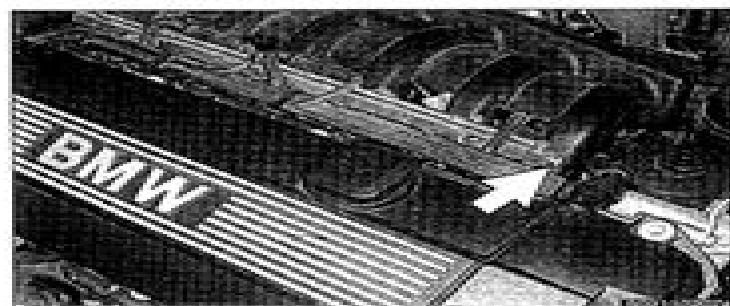
Cylinder Head Removal and Installation



- ▲ Working above engine, disconnect the following:
- Vent line from cylinder head cover (A).
 - Oxygen sensor connectors (B).
 - Electrical harness connector from VANOS solenoid valve (C).
 - Electrical harness connectors at throttle valve position switch (D), ASC valve position switch (E), fuel injector harness (F) and vent valve (G).

CAUTION—

Be sure to mark oxygen sensor harness connectors so that they can be reassembled correctly. Do not interchange connectors.



- ▲ Where applicable, remove schraeder valve cap (arrow) from air connection on fuel rail. Using a tire chuck, blow fuel back through feed line using a brief burst of compressed air (maximum of 3 bar or 43.5 psi).

WARNING —

- Fuel in fuel line is under pressure (approx. 3 - 5 bar or 45 - 75 psi) and may be expelled. Do not smoke or work near heaters or other fire hazards. Keep a fire extinguisher handy. Before disconnecting fuel hoses, wrap a cloth around fuel hoses to absorb any leaking fuel. Catch and dispose of escaped fuel. Plug open fuel lines.
- Always unscrew the fuel tank cap to release pressure in the tank before working on the tank or lines.



- ▲ Disconnect fuel lines by sliding locking collar in (arrows) and pulling lines apart.

NOTE —

BMW uses three styles of fuel line connections; a one-time use clamp; a locking fitting that uses BMW special tool 16 1 050 to release; and a quick release sleeve (above) that disconnects the line when depressed.

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Helming



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BMW Buyer's Guide Fred Larimer, 2002 *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 Focus On: 100 Most Popular Station Wagons Wikipedia contributors, **Focus On: 100 Most Popular Sedans** Wikipedia contributors, **Automotive Engineering e-Mega Reference** David Crolla, 2009-09-24 This one stop Mega Reference eBook brings together the essential professional reference content from leading international contributors in the automotive field An expansion the Automotive Engineering print edition this fully searchable electronic reference book of 2500 pages delivers content to meet all the main information needs of engineers working in vehicle design and development Material ranges from basic to advanced topics from engines and transmissions to vehicle dynamics and modelling A fully searchable Mega Reference Ebook providing all the essential material needed by Automotive Engineers on a day to day basis Fundamentals key techniques engineering best practice and rules of thumb together in one quick reference Over 2 500 pages of reference material including over 1 500 pages not included in the print edition **Chilton's Import Auto Service Manual** , 2000 Contains general information for technicians on the specifications MIL resetting and DTC retrieval accessory drive belts timing belts brakes oxygen sensors electric cooling fans and heater cores of twenty one types of import cars *Autocar* , 2004 Original BMW M-Series James Taylor, 2001 Guaranteed to come to the rescue of owners attempting to determine which parts accessories and colors will restore their M Series BMW to factory original condition this new title in the Bay View Original Series begins with the introduction of the M1 supercar in 1979 and continues through two generations each of the M3 and M5 as well as the production of the 1996 M635csi Color photography offers detail shots and full views taken in Germany Great Britain the U S and South Africa the nation in which the M5 was

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