

FIG 1-26 Disconnecting hoses, linkage and cables



FIG 1-27 Venturi hose and electric heater

Before, all models:

The instructions concerning the correct alignment of camshaft and camshaft must be observed, otherwise the valves may contact the pistons and cause serious internal damage.

If the camshaft position has been disturbed, turn the camshaft until piston No 1 (right) is at the top of its bore, with the piston timing marks aligned at TDC, as described in Chapter 3. Clean the joint faces of cylinder head and block, avoiding the use of sharp tools which could scratch the surfaces.

Make sure that the threaded holes for the cylinder head bolts in the block are free of oil. If it is necessary, the bolts may not exert sufficient pressure to hold the cylinder head down even though the correct torque figure is achieved. It is also possible for pressure on the oil to cause cracking of the cylinder block as the bolts are tightened.

Fit a new head gasket into position on the cylinder block, making sure that the gasket is the correct size and by checking that each hole in the gasket matches the appropriate hole in the block surface. Apply oil-soak or similar sealer to the gasket at the points noted in FIG 1-28 only.

Before installing cylinder head, make sure that the camshaft is correctly aligned with the cam lobes for No 1 (right) cylinder in the timing position as described in Section 1-4. Fit the cylinder head carefully into position and insert the cylinder head bolts through the correct holes. Remove the guide pins and fit the retaining bolts. Tighten the bolts in the order shown in FIG 1-29, in three successive stages, of 3, 8.8 and 1.2 steps (22, 48 and 120 lb ft).

Refit the remaining components in the intake order of removal, following the instructions given in Section 1-5 when installing the sprocket and chain assembly to the camshaft. Before installing the rocker cover, set the valve clearances as described in Section 1-5. Use a new rocker cover gasket and tighten the cover fixing bolts in the order shown in FIG 1-30. On models equipped with fuel injection systems, ensure that the earth cable is connected at point 5 and the lean clamp at point 6. On compression, set the cooling system as described in Chapter 4, set spark timing as described in Chapter 3, and carry out the idle speed adjustments given in Chapter 2.

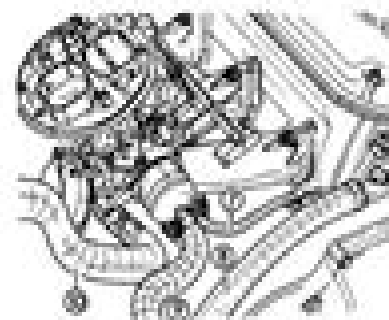


FIG 1-28 Disconnecting hoses

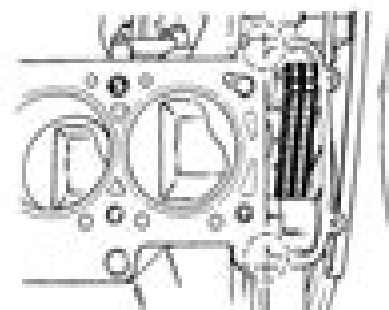


FIG 1-29 Bolter application points of head gasket

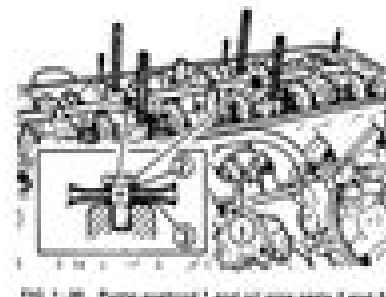


FIG 1-30 Pump outlet 1 and oil pipe ends 2 and 3

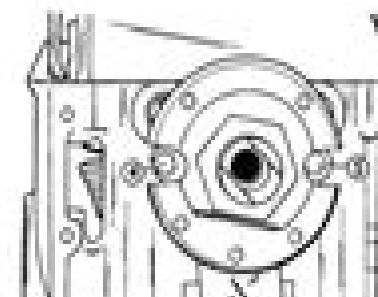


FIG 1-31 Camshaft guide pins across

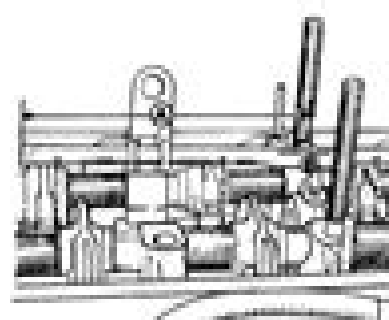


FIG 1-32 Oil pipe installation

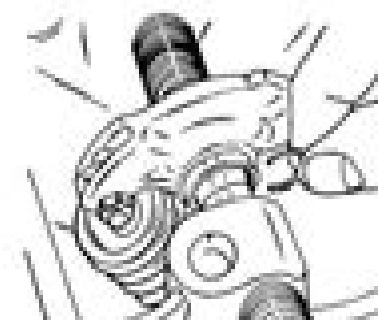


FIG 1-33 Rocker shaft timing adjuster

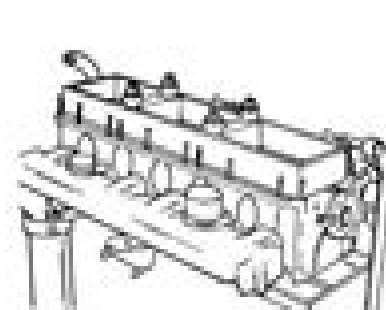


FIG 1-34 Compression frame installation



FIG 1-35 Rocker shaft locking bolts

Bmw E3 Service And Repair Manual

Andrew K. Legg, Larry Warren



Bmw E3 Service And Repair Manual:

BMW Buyer's Guide Fred Larimer,2002 **BMW 3- & 5-Series Service and Repair Manual** ,2013 *BMW 3- & 5-series Service and Repair Manual* Andrew K. Legg,Larry Warren,1998 BMW 3 Saloon Touring Saloon 81 88 up to F 5 Series E34 518i 520i 525i 530i 535i Saloon Touring 88 91 F to J Does NOT cover models with DOHC V8 or Diesel engines or 4x4 For other 3 5 series models see manuals no 0276 0632 0815 1560 or 3210 Petrol 1 6 litre 1596cc 1 8 litre 1766 1795cc 2 0 litre 1990cc 2 5 litre 2494cc 2 8 litre 2788cc 3 0 litre 2986cc 3 5 litre 3430cc SOHC BMW 3-Series Mark Coombs,2003

BMW 5 Series Diesel (03-09) 52 to 10 Martynn Randall,2011 BMW 5 Series Saloon E60 and Touring E61 with 4 6 cylinder turbo diesel engines 520d 525d 530d 2 0 litre 1995cc 2 5 litre 2497cc 3 0 litre 2993cc turbo diesel Does NOT cover petrol models 535d twin turbo diesel models or models with xDrive transmission Does NOT cover new 5 Series F10 F11 range introduced during 2010 *Car and Driver* ,1982 B. M. W.3 Series Service and Repair Manual Peter G. Strasman,1995 *Autocar & Motor* ,1994 **Popular Science** ,1978 *The Autocar* ,1986 **Autocar** ,1998 *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 **Service and Repair Manual for BMW 3- & 5-Series** A. K. Legg,2013 *Service and Repair Manual for BMW 3-series* Mark Coombs,Steve Rendle,2003

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BMW X3 (E83) Service Manual: 2004, 2005, 2006, 2007, 2008, 2009, 2010: 2.5i, 3.0i, 3.0si, Xdrive 30i Bentley Publishers,2015-01-26 The BMW X3 E83 Service Manual 2004 2010 contains in depth maintenance service and repair information for the BMW X3 from 2004 to 2010 The aim throughout has been simplicity and clarity with practical explanations step by step procedures and accurate specifications Whether you re a professional or a do it yourself BMW owner this manual helps you understand care for and repair your BMW Engines covered M54 engine 2 5i 3 0i 2004 2006 N52 engine 3 0si xDrive 30i 2007 2010 Transmissions covered Manual ZF GS6 37BZ 6 speed Automatic GM A5S390R 5 speed Automatic GM GA6L45R 6 speed **Road and Track** ,1984 Service and Repair Manual for BMW 1 Series Martynnn Randall,2011 Hatchback and Coupe models with 4 cylinder petrol and diesel engines 1 6 litre 1596cc and 2 0 litre 1995cc petrol engines 2 0 litre 1995cc diesel engine Does not cover 2 5 or 3 0 litre engines or features specific to Convertible

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