

4. Lightly lubricate new cylinder head bolts. Loosely install bolts with washers. Thread all bolts in finger tight.

CAUTION —

- Torx-type cylinder head bolts should not be reused. They are stretch-type bolts and must always be replaced whenever loosened.
- Do not wash protective coating from new bolts.
- Check that all washers for the head bolts are in place before installing bolts. Some washers may be staked to the cylinder head.

5. Tighten cylinder head bolts in stages, alternately and diagonally in the sequence shown. See Fig. 53.

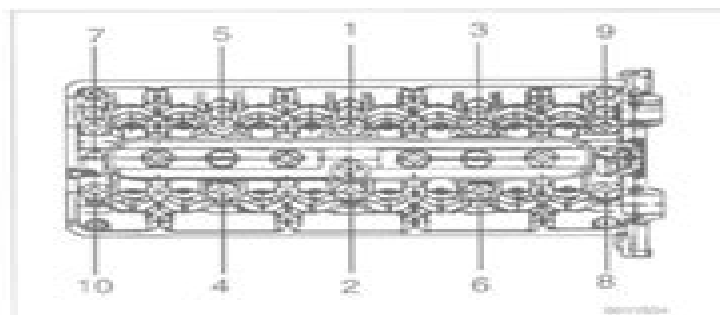


Fig. 53. Cylinder head bolt tightening sequence (M60 engines).

WARNING —

The use of a special tool (BMW Tool Kit, 11 21 1 10) or a suitable protractor is required to tighten head bolts to a specified torque angle. See Fig. 26, given earlier.

Tightening Torques

- Cylinder head to cylinder block (M60 engines)

stage 1	30 Nm (22 ft-lb)
stage 2	+80°
stage 3	+80°

6. Install chain guide rail and guide rail mounting bolt.

7. Position camshafts and crankshaft at TDC and lock shafts in position using BMW special tools. See 117 **Camshaft Timing Chain**.

8. Install intake sprocket (right cylinder head) to timing chain and camshaft with arrow on sprocket pointing up and dowel pin for camshaft position sensor in lower left. See Fig. 54.

- Bolt holes in sprocket should be centered to threaded bores in camshaft. Tighten sprocket bolts finger tight.

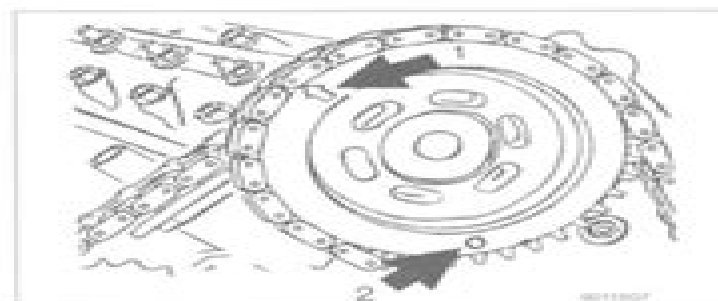


Fig. 54. Intake sprocket correctly aligned to camshaft, with arrow pointing up (1) and sensor pin in lower left (2).

9. Adjust camshaft timing and tighten sprocket mounting bolts as described in 117 **Camshaft Timing Chain**.

- Install front timing chain cover, using new gaskets and new O-ring for tensioner oil feed (between cover and cylinder head).

10. Remove protective film from gaskets. Seal lower corners of cover to cylinder head. Tighten bolts in two stages, tightening cover-to-cylinder block bolts first.

11. Install camshaft timing chain tensioner.

12. The remainder of installation is the reverse of removal, noting the following special instructions:

- Use new gaskets when mounting the intake manifold. Tighten nuts finger tight first, then torque to specification in stages working diagonally from inside to outside.
- Refill and bleed cooling system as described in 170 **Radiator and Cooling System**.
- Change the engine oil and filter as described in 020 **Maintenance Program**.

CAUTION —

To prevent damaging engine electronic systems, be sure to install all ground wires previously removed.

NOTE —

Tightening torques are given on the following page.

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L Towe



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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 **Bentley BMW 3 Series Service Manual 1992-1998** Bentley Publishers, 1999 If you're looking for better understanding of your E36 BMW look no further See and learn how to perform routine maintenance procedures with the highest level of clarity and comprehensiveness This in depth manual provides maintenance procedures for everything from brake fluid changes to resetting the service indicator Covers M3 318i 323i 325i 328i sedan coupe and convertible models 1992-98 *Bentley BMW 5-Series 1989-95 Service Manual* Bentley Publishers, 1998-07-03 If you're looking for better understanding of your BMW look no further This manual provides the highest level of clarity and completeness for all service and repair procedures Covers 525i 530i 535i 540i including touring [Volvo 240 Service Manual 1983 Through 1993](#) Bentley Publishers, 1993 Vehicle Maintenance [BMW 3-series](#) Robert Bentley, inc, Bentley Publishers, 1991 Engine coverage 1.8 liter 4 cylinder B18 2.7 liter 6 cylinder B27 2.5 liter 6 cylinder B25 Transmission coverage Getrag 240 4 cylinder cars Getrag 260 6 cylinder cars **101 Performance Projects for Your BMW 3 Series 1982-2000** Wayne R. Dempsey, 2006-09-15 Since its introduction in 1975 the BMW 3 series has earned a reputation as one of the world's greatest sports sedans Unfortunately it has also proven one of the more expensive to service and maintain This book is dedicated to the legion of BMW 3 series owners who adore their cars and enjoy restoring modifying and maintaining them to perfection its format allows more of these enthusiasts to get out into the garage and work on their BMWs and in the process to save a fortune Created with the weekend mechanic in mind this extensively illustrated manual offers 101 projects that will help you modify maintain and enhance your BMW 3 series sports sedan Focusing on the 1984 1999 E30 and E36 models 101 Performance Projects for Your BMW 3 Series presents all the necessary information covers all the pitfalls and assesses all the costs associated with performing an expansive array of weekend projects [Saab 900, 16 Valve Official Service Manual, 1985-1993](#) Bentley, Bentley Publishers, 1993 These official Saab manuals are the only factory authorized comprehensive single source of service information and specifications available Whether you're a professional technician or do it yourselfer these manuals will help you understand care for and repair your Saab Everything from fundamental automotive concepts and maintenance procedures to complex electrical system troubleshooting and complete engine overhaul is clearly explained Critical updates and information from the Saab Service Information Manual the Parts Service Information System and Saab Service Training have been included as well as fast proven repair procedures and tips used by Saab technicians **Bosch Fuel Injection and Engine Management** C. Probst, 1989-11-27 This Bosch Bible fully explains the theory troubleshooting and service of all Bosch systems from D-Jetronic through the latest Motronics Includes high performance tuning secrets and information on the newest KE and LH Motronic systems not available from any other source

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