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

#### CARTICON ---

- Ton-type cylinder head botts should not be reused. They are smetch-type bolts and must always be replaced whenever incorpred.
- Do not wash protective coating from new botts.
- Gheck that all washers for the head bolts are in place before installing botts. Some washers may be staked to title cylinder head
- Tighten cylinder head bolts in stages, alternately and diagonally in the sequence shown. See Fig. Fig. 53.

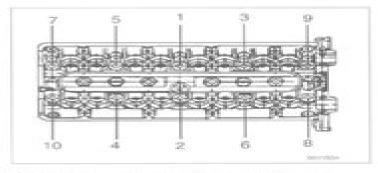


Fig. 53. Cylinder head bolt lightening sequence (MICI engines.

#### WARMING ---

The use of a special tool (SMAW Tool No. 1.1.2.110) or a suitable proteactor is required to tighten head to specified torque angle. See Fig. 28, given earlier.

#### **Tightening Torques**

- Install chain guide rail and guide rail mounting bolt.
- Position camshafts and crankshaft at TDC and lock shafts in position using BMW special tools. See 117 Camshaft Timing Chain.

- Install intake sprocket (right cylinder head) to timing chain and camphalt with arrow on sprocket pointing up and dowel pin for camphalt 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.

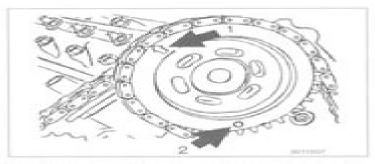


Fig. 54. Intake aprocket correctly aligned to commutat with arrow pointing up (1) and sensor pin in lower left (2).

- Adjust camshaft timing and tighten sprocket mounting bolts as described in 117 Camshaft Timing Chain.
  - Install from timing chain cover, using new gaskets and new O-ring for tensioner oil feed (between cover and cylinder head).
- Riemove protective film from gaskets. Seal lower corners of cover to cylinder head. Tighten botts in two stages, tightening cover-to-cylinder block bolts first.
- 11. Install camshalt timing chain tensioner.
- The remainder of installation is the reverse of removal, noting the following special instructions:
  - Use new gaskets when mounting the intake manifold.
     Tighten nuts linger 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.

REMOVING AND INSTALLING CYLINDER HEAD

# 1996 Bmw 328i Owners Manual

**Jeffrey Zurschmeide** 

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