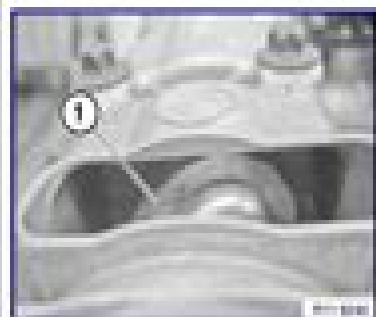
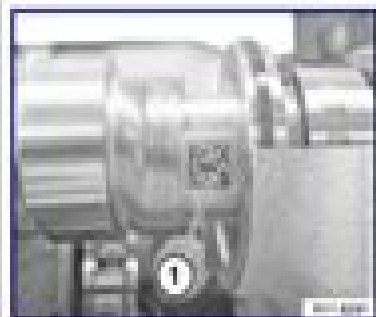




With 1st cylinder in TDC firing position, cams of the exhaust camshaft (1) point upwards at an angle.



Part numbers (2) on intake and exhaust camshafts (1) point upwards.

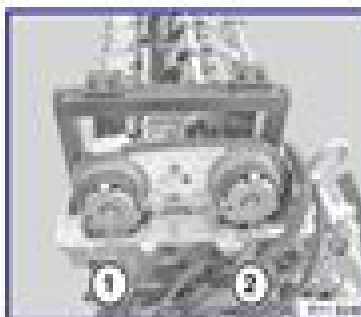
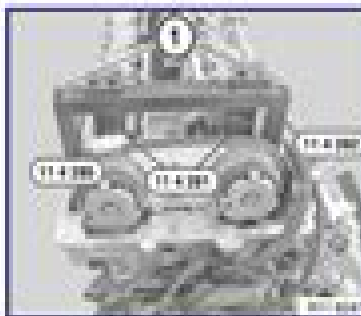
Secure special tool [11.4.285](#) with bolts (1) to cylinder head.

Note:

Fit special tool [11.4.282](#) underneath on side of intake camshaft.

Mount reworked special tool [11.4.281](#) on the intake camshaft.

Mount special tool [11.4.281](#) on the exhaust camshaft.



Important!

Only use special tool [11.4.285](#) to loosen central bolts (1 and 2) of VARIO unit.

Release central bolts (1 and 2).



Release chain tensioner (1).

Tightening torque [11.21.282](#).

Important!

Have a cleaning cloth ready. A small quantity of engine oil will emerge after the screw connection has been released.

Make sure no engine oil runs onto belt drive.

Installation note:

Replace sealing ring.

Turn increment wheel (2) in direction of arrow until retaining pins (1) on special tool [11.4.290](#) match up.

[11.4.290](#) slide on special tool in direction of arrow.

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BMW 3 Series (F30, F31, F34) Service Manual: 2012, 2013, 2014, 2015: 320i, 328i, 328d, 335i, Including Xdrive Bentley Publishers,2016-02-16 The BMW 3 Series F30 F31 F34 Service Manual 2012 2015 contains in depth maintenance service and repair information for the BMW 3 Series from 2012 to 2015 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 3 Series Engines Gasoline N20 engine 320i 328i including xDrive N26 SULEV engine 328i including xDrive N55 engine 335i including xDrive **Repair Manual, BMW 320i**

Bayerische Motoren Werke,19?? **Autocar & Motor** ,1992-08 Service and Repair Manual for BMW 3 Series Peter G. Strasman,1995 *BMW 3-Series* Mark Coombs,2003 **BMW 320i Manual** John Haynes,1990-07-30 Haynes disassembles every subject vehicle and documents every step with thorough instructions and clear photos Haynes repair manuals are used by the pros but written for the do it yourselfer **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 **B. M. W.3 Series Service and Repair Manual** Peter G. Strasman,1995 BMW 3- & 5-Series Service and Repair Manual ,2013

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