



Description

BMW introduced a Twin VANOS System (Variable Valve Control) on the 6 cylinder twincamshaft petrol, chain driven engines. VANOS Adjustment Units are fitted to both camshafts (inlet and exhaust) and must be re-set to align with camshafts when setting engine timing after Cam Chain replacement etc.

Models	Type	Engine Code	Year
320i/323i/328i/Coupe	E46	20/25/28 6S 2 (M52)	1998-2001
520i/523i/528i	E39	20/25/ 6S 4, 28 6S 2 (M52)	1998-2001
728i	E38	28 6S 2 (M52)	1998-2002
Z3 2.0i/2.8i		20 6S 4 28 6S 2 (M52)	1999-2003
Z3 2.2i/3.0i		22 6S 1 30 6S 3 (M54)	2000-2003
X5 3.0i	E53	30 6S 3 (M54)	1999-2007
320i	E46	22 6S 1	2000-2007
520i	E39	22 6S 1	2000-2003
520i	E60/61	22 6S 1	2003-2005
325i/Compact	E46	25 6S 5	2000-2007
330i	E46	30 6S 3	2000-2007
525i/530i	E39	25 6S 5 30 6S 3	2000-2003
525i/530i	E60/61	25 6S 5 30 6S 3	2003-2005
730i	E65/66	30 6S 3	2002-2005
X3 3.0	E83	30 6S 3	2003-2007
Z4 2.5/3.0	E85	25 6S 5 30 6S 3	2003-2006