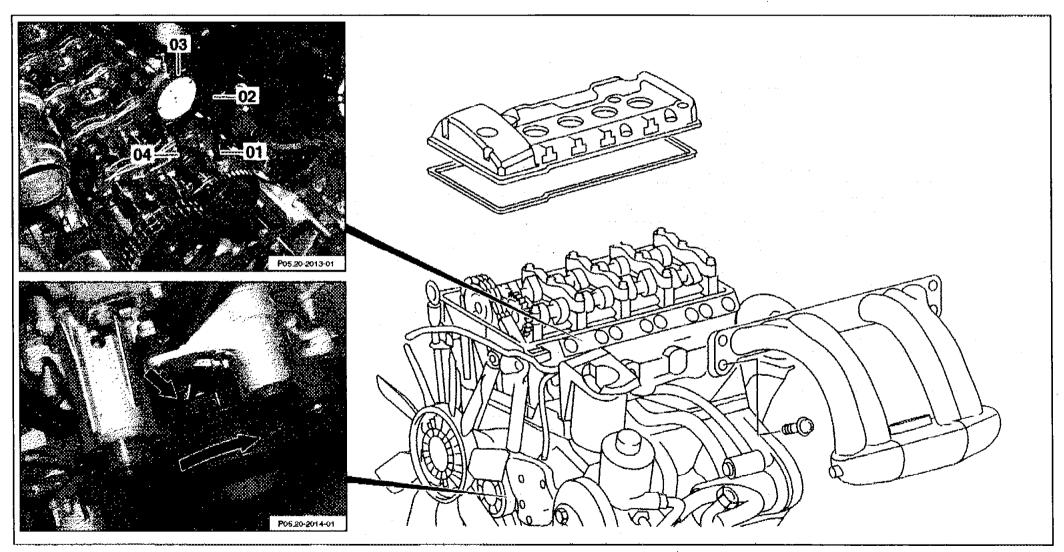


M2 AR05.20-P-6015HB Checking camshaft timing 14.1.98

# **ENGINE 604, 605, 606**



i	When carrying out removal and installation work, it is sufficient if the basic position of the camshafts is checked. Only check the timing of the camshafts if it is certain that the setting of the TDC pointer is correct, if necessary \$\psi\$ inspect setting of TDC pointer bracket, correct		AR05.20-P-6010HA <b>J2</b> AR03.00-P-1101HA
XX	Removing, installing		
1	Remove cylinder head cover		AR01.20-P-5014HA
2	Remove viscous fan clutch	Engine 605, 606 in model 124 Engine 606.961 in model 140 Engine 605 in model 202 Engine 605, 606 in model 210 Engine 604 in models 202, 210	AR20.40-P-5660HB AR20.40-P-5660HA
		Engine 606 in model 463	AR20.40-P-5660GG
4	Checking		
3	Check camshaft code numbers	i The camshaft code numbers are shown at the thrust collar of the axial bearing	BE05.20-P-1001-01A

4	Attach dial gage holder (02) to the intake side of cylinder 1 to the cylinder head	Insert threaded pin into M6 hole of cylinder head cover attachment for this step.  Screw nut (01) (part no. 102 990 01 51) onto threaded pin.  Screw dial gage holder (02) onto nut (01) with magnetic foot removed.  Threaded pin  Dial gage holder	116 589 01 34 00 363 589 02 21 00
5	Position inlet cams of cylinder 1 so that only the base circles are making contact with the bucket tappets		
6	Attach dial gage (03) with tracer pin (04) to dial gage holder	S Dial gage	001 589 53 21 00
7	Set a preload of 3 mm and an angle of 90° of tracer pin (04) to bucket tappet		
8	Use socket wrench bit to rotate the crankshaft in direction of rotation of engine until a valve stroke of 2 mm is indicated	Socket wrench bit	001 589 65 09 00
9	Check reading (arrow) at the vibration damper	1 At valve lift of 2 mm, the reading at the vibration damper should agree with the figure as in the table	BE05.20-P-1001-02A
10	Install in the reverse order		



#### **Camshaft code numbers**

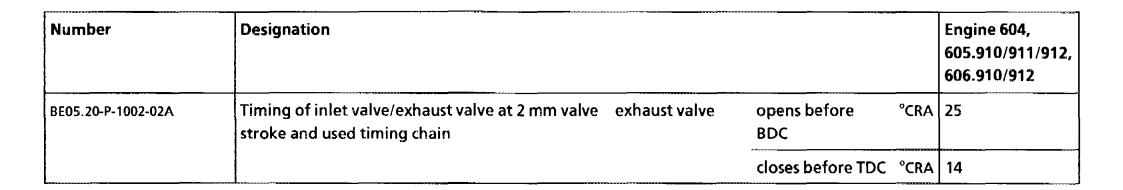
Number	Designation		Engine 604	Engine 605 except 605.960/962	Engine 606 except 606.961/962/964
BE05.20-P-1001-01A	Camshaft code numbers	inlet	11	11	08
		exhaust	10	08	07

#### **Camshaft code numbers**

Number	Designation		Engine 605.960/ 962	Engine 606.961/ 962/964
BE05.20-P-1001-01A	Camshaft code numbers	inlet	14	11
		exhaust	08	07

# Timing

Number	Designation			Engine 604, 605.910/911/912, 606.910/912
BE05.20-P-1001-02A	Timing of inlet valve/exhaust valve at 2 mm valve inlet valve	opens after TDC	°CRA	12
	stroke and used timing chain	closes after BDC	°CRA	13

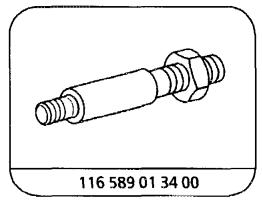


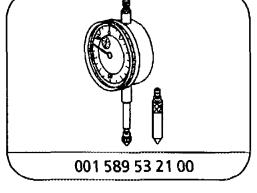
#### **Timing**

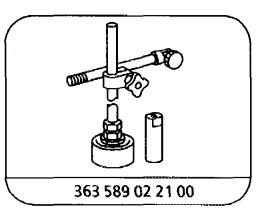
Number	Designation		Engine 605.960/ 962
BE05.20-P-1001-02A	Timing of inlet valve/exhaust valve at 2 mm valve inlet valve	opens after TDC °CRA	A 12
	stroke and used timing chain	closes after BDC °CRA	A 0
BE05.20-P-1002-02A	Timing of inlet valve/exhaust valve at 2 mm valve exhaust valve stroke and used timing chain	opens before °CRA BDC	A 25
		closes before TDC °CRA	A 14

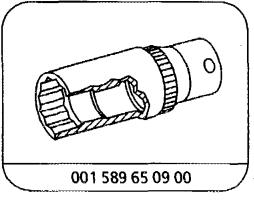
# Timing

Number	r Designation		
BE05.20-P-1001-02A	Timing of inlet valve/exhaust valve at 2 mm valve inlet valve stroke and used timing chain	opens after TDC °CR	A 12
		closes after BDC °CR	A 0
BE05.20-P-1002-02A	Timing of inlet valve/exhaust valve at 2 mm valve exhaust valve stroke and used timing chain	opens before °CR BDC	A 25
		closes before TDC °CR	A 14









Threaded pin

Dial gage

Dial gage holder

Socket wrench bit