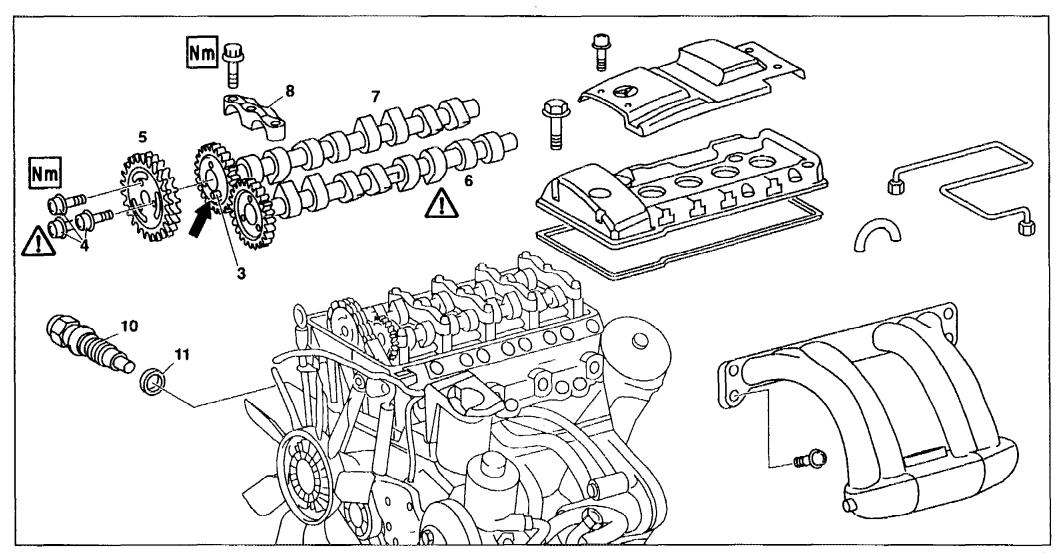
C3

AR05.20-P-6020HA

Adjusting basic position of camshafts

2.4.93

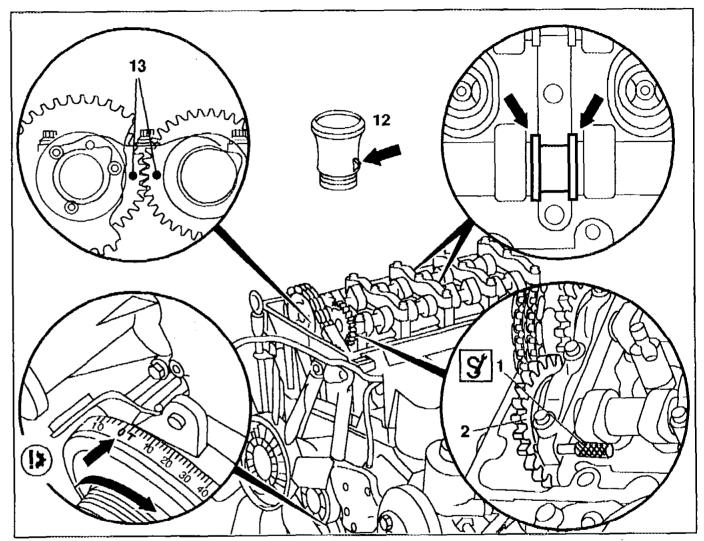
ENGINE 604, 605, 606/



- 3 Dowel pin
- 4 Bolts of camshaft sprocket
- 5 Camshaft sprocket
- 6 Inlet camshaft
- 7 Exhaust camshaft

- 8 Camshaft bearing cap
- 10 Chain tensioner
- 11 Seal of chain tensioner

- 1 S Retaining pin
- 2 Inlet camshaft sprocket
- 12 Bushes of shaft cover
- 13 Drillings



P05.20-0213-06

Modification notes

1.3.95	Technical modification: Bolts for attaching camshaft	Operation 3	AR05.20-6020HA
	housing discontinued.		
	The camshaft must be bolted to the cylinder head when		
	performing repairs.		

X	Removing			
1	Remove chain tensioner (10)		AR05.10-P-7800HA	M1
2	Detach camshaft gear (5) from exhaust camshaft (7), take off	Pay attention to dowel pin (3) (arrow). Take off camshaft gear (5) with timing chain fitted on		
3	Bolt camshaft housing to cylinder head	Engine 604, 605, 606 as of 09.94 The camshaft housing must be bolted to the cylinder head in order to avoid damage (leaks at seals between camshaft housing and cylinder head) when removing the camshafts.	AR05.20-P-6992-10A	A16
⊯ BT	Bolts for attaching camshaft housing to cylinder head discontinued		BT05.20-P-0001-01A	P17
4	Unbolt camshaft bearing caps	Pay attention to marking of camshaft bearing caps		_
		Engine 604	AR05.20-P-6992-05HA	C16
		Engine 605	AR05.20-P-6992-05HB	D16

		Engine 606	AR05.20-P-6992-05HC F16
5	Remove inlet and exhaust camshafts (6, 7)		
6	Remove bushes of shaft cover (12)	000000000000000000000000000000000000000	
X	Installing	,	
7	Install bushes of shaft cover (12)	Replace seals. The lug on the bush of the shaft cover (arrow) must be aligned with the guide notch in the camshaft housing	
8	Install inlet and exhaust camshafts (6, 7)	The camshafts are very sensitive to fracturing. Ensure that they are installed free of stress Oil bucket tappets and camshaft bearing points. Check that bucket tappets operate freely. Pay attention to matching of camshafts! The camshaft code numbers are indicated on the thrust collar of the axial bearing. Align inlet and exhaust camshafts at the axial bearing (arrows). Install camshafts so that the two holes (13) in the camshaft sprockets are opposite each other and the markings of camshaft (arrows) and camshaft bearing caps are aligned.	BE05.20-P-1001-01A

9	Install camshaft bearing caps	Pay attention to marking of camshaft bearing caps!		
		Engine 604	AR05.20-P-6992-05HA C16	
		Engine 605	AR05.20-P-6992-05HB D16	
		Engine 606	AR05.20-P-6992-05HC F16	
		Install camshaft bearing caps (8) at the same point in the reverse order. Tighten bearing cap bolts evenly in steps each of one turn.	BA05.20-P-1002-01A	
10	Lock inlet camshaft (6)	Insert the retaining pin (1) through camshaft bearing cap 1 into the hole in the inlet camshaft gear (2). When the inlet camshaft is blocked, the piston of cylinder 1 must be at ignition TDC.		
		3	111 589 03 15 00	
11	Fit camshaft gear (5) onto exhaust camshaft (7)	Installing: Replace bolts of camshaft gear (4). Pay attention to dowel pin (3) (arrow). Fit on camshaft gear (5) with timing chain fitted.	BA05.20-P-1001-01A	
12	Install chain tensioner (10)	Replace seal of chain tensioner (11)	AR05.10-P-7800HA M1	
13	Fit parts to engine	After assembling, check start of delivery of injection pump \$\psi\$, , , , , , , , , , , , , , , , , , , ,	



	Model 124 with engine 605, 606	RA07.8244
	Model 202 with engine 604, 605 Model 210 with engine 604, 605, 606 See Diagnosis Manual Engine Volume 1.1 □ B4	
·	Model 463 with engine 606.964 See Diagnosis Manual Cross-Country Vehicles Engine	

Camshaft code numbers

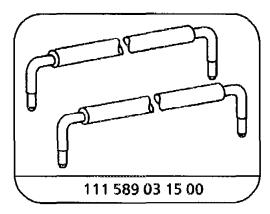
Number	Designation		Engine 604	Engine 605.910/ 911/912	Engine 606.910/ 912
BE05.20-P-1001-01A	Camshaft code numbers	Inlet	11	11	08
		Exhaust	10	08	07

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

Nm Camshaft

Number	Designation	.:	Engine 604, 605, 606
BA05.20-P-1001-01A	Bolts of camshaft gear	Nm	18
BA05.20-P-1002-01A	Bolts of camshaft bearing caps	Nm	15



Fixing pin