

Calculated OM617 timing chain elongation and offset key corrections

PCD camshaft sprocket 119 mm
Diameter shaft on camshaft 28 mm

Degrees elongation at crank	Degrees elongation at cam shaft	Linear elongation at cam sprocket (mm)	Required correction at cam sprocket shaft (mm)	Comments
1	0.5	0.52	0.12	
2	1	1.04	0.24	
3	1.5	1.56	0.37	
4	2	2.08	0.49	0.7mm offset key 621 991 04 67
5	2.5	2.60	0.61	
6	3	3.12	0.73	
6.5	3.25	3.38	0.79	0.9mm offset key 621 991 02 67
7	3.5	3.63	0.86	
8	4	4.15	0.98	1.1mm offset key 621 991 01 67
9	4.5	4.67	1.10	
10	5	5.19	1.22	1.3mm offset key 621 991 00 67
11	5.5	5.71	1.34	
12	6	6.23	1.47	
13	6.5	6.75	1.59	
14	7	7.27	1.71	
15	7.5	7.79	1.83	
16	8	8.31	1.95	
17	8.5	8.83	2.08	
18	9	9.35	2.20	Same as skipping one tooth
19	9.5	9.87	2.32	
20	10	10.38	2.44	

Repeated data for offset keys using diameter on shaft 30 mm

4	2	2.08	0.52	0.7mm offset key 621 991 04 67
6.5	3.25	3.38	0.85	0.9mm offset key 621 991 02 67
8	4	4.15	1.05	1.1mm offset key 621 991 01 67
10	5	5.19	1.31	1.3mm offset key 621 991 00 67