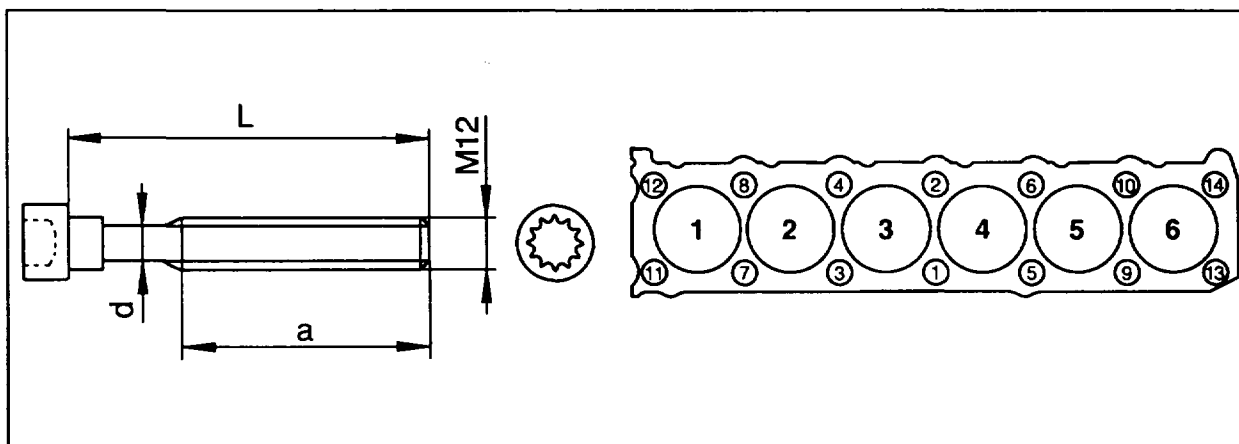


01-4050 Checking, tightening cylinder head bolts



P01-6044-53

**Checking**

Length (L) of cylinder head bolts .....

check.

**Note**

The cylinder head bolts are subject to permanent stretch each time they are tightened. If the maximum length (L) is exceeded, the bolts should be replaced. Pay attention to different versions; see note.

**Tightening**

Thread of cylinder head bolts and threaded holes in crankcase .....

clean.



Fluids injected into the threaded holes can destroy the crankcase.

Cylinder head bolts .....

oil thread and bolt head contact surface.

Cylinder head bolts . . . . . tighten in stages in the order of the tightening diagram, starting with 1

1st stage                    55 Nm

2nd stage                    90° tightening angle

3rd stage                    90° tightening angle



The cylinder head gasket is not watertight until the engine has reached its normal operating temperature and the gasket has swollen. For this reason, do not pressure-test cooling system until the engine has reached its operating temperature.

**Tightening torques in Nm**

Cylinder head bolts when engine cold	1st stage	55
	2nd stage 90° tightening angle	
	3rd stage 90° tightening angle	

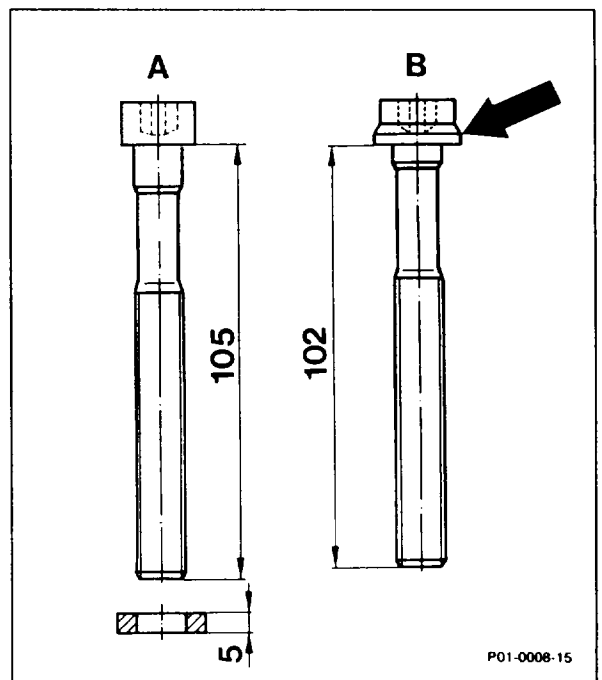
**Length of cylinder head bolt**

Version	Length (L) new	Maximum length (L)
A	105 mm	108.4 mm
B	102 mm	105.8 mm

**Modified cylinder head bolts**

The M12 × 105 mm cylinder head bolts with washer (A) have been replaced by the M12 × 102 mm collar bolt without washer (B). The cylinder head bolts of version (A) with washers can be replaced with the version (B) without washer and vice versa.

Version (B) fitted as standard from 11/1988 up to 02/1989 and as of 11/1990.



## Special tools

