

Mercedes Classik Workshop Manual



Engines G-Class Model 460

Engines: 115.973 | 616.936 | 617.931

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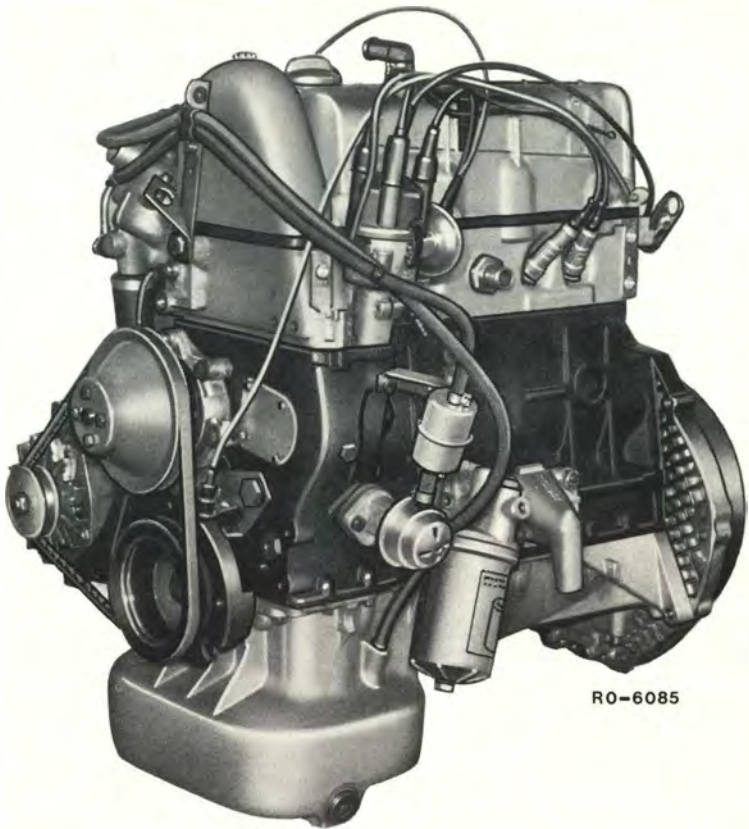
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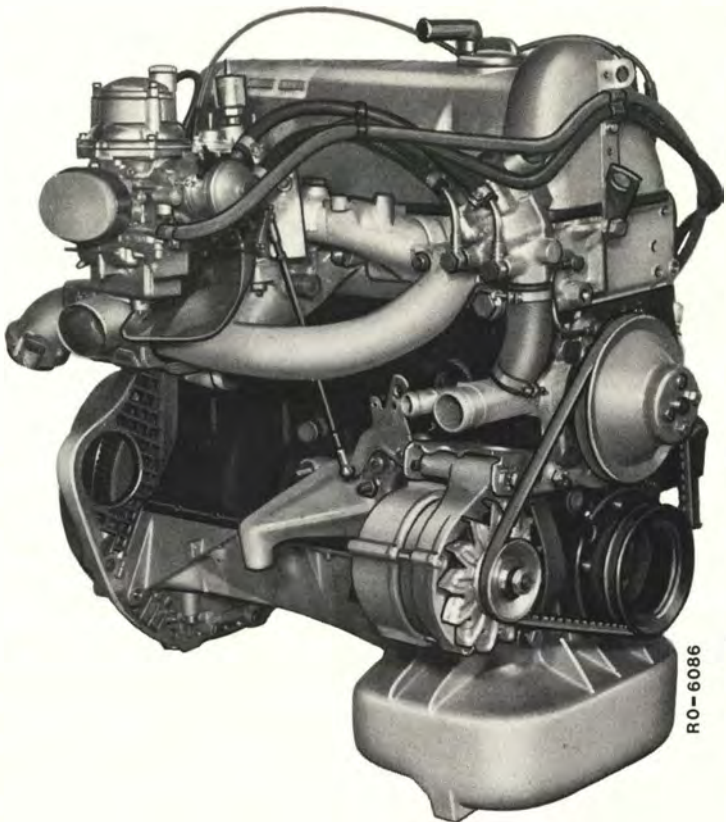
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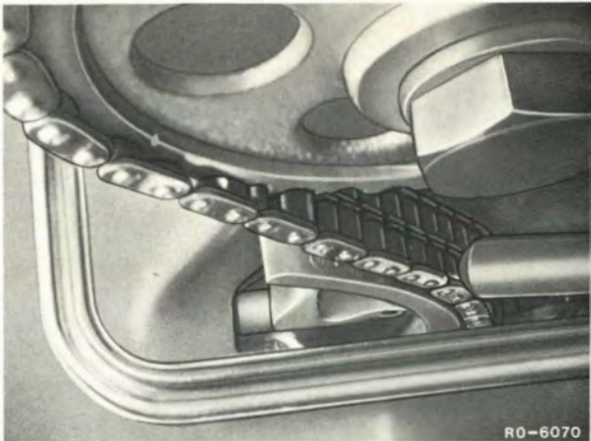
Engine 115 – Ignition distributor side



Engine 115 – Carburetor side

01.61 Removal and installation of cylinder head

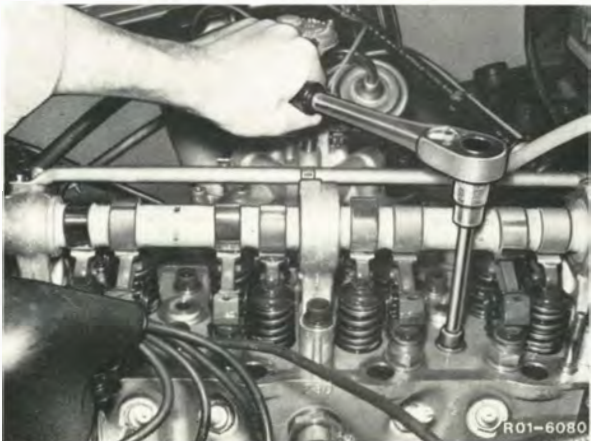
12 Push back thrust bolt of chain tensioner.



13 Loosen camshaft sprocket and remove. To loosen the necked-down bolt, lock camshaft sprocket in place with a screwdriver or steel bar and loosen fuel line retainer and swivel aside.



14 Loosen and unscrew cylinder head bolts with Allen key inserts in reverse squence of tightening diagram.

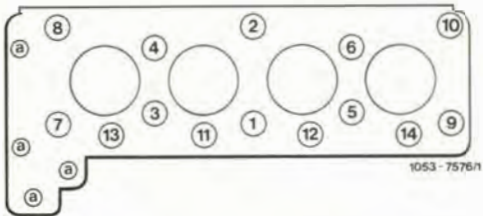


- Allen key 6 mm 116 589 03 07 00
- Allen key insert 8 mm 000 589 33 07 00
- Allen key insert 10 mm 000 589 05 07 00

Cylinder head tightening diagram

15 Push tension rail to the engine center and remove cylinder head by hand.

16 Thoroughly clean cylinder head and cylinder crankcase parting surface and measure surface (01.61-738).



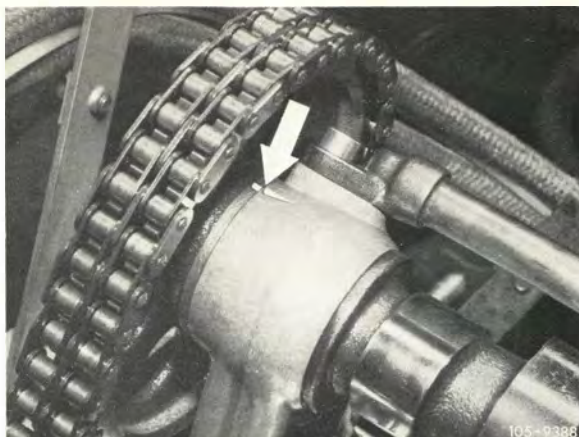
05.61 Checking and Adjusting Camshaft Timing

Checking Timing

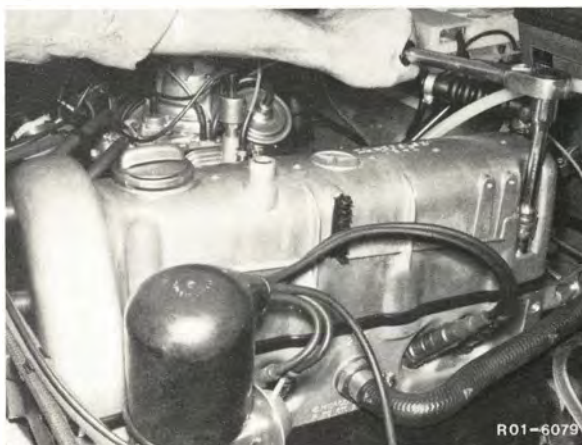
Note: During assembly jobs it is sufficient if the marks (arrow) coincide in the ignition TDC position of the 1st cylinder.

In special cases, e.g., complaints regarding performance, the following checkup and adjustment of begin of opening must be performed on the intake valve of the 1st cylinder.

Timing is measured at 2 mm valve lift. Valve clearance must be eliminated for this purpose.

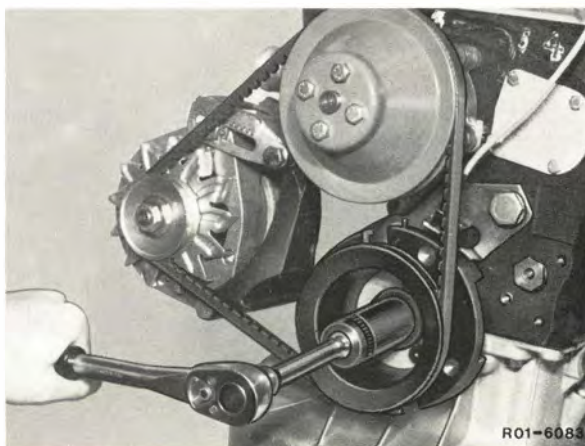


- 1 Remove cylinder head cover.



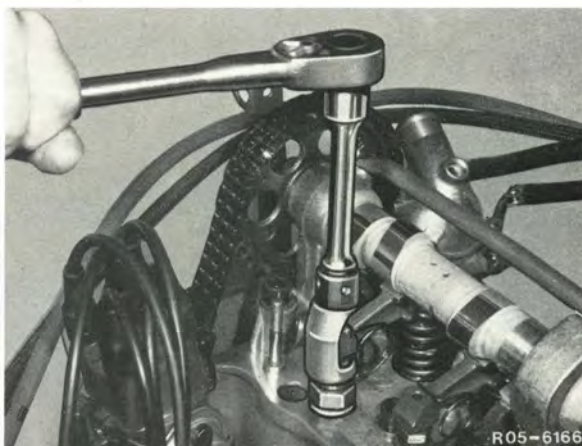
- 2 Turn crankshaft with the special tool until the tip of the cam faces upwards.

Note: The engine may not be cranked on the bolt of the camshaft sprocket. On no account turn the engine in reverse direction during measuring, as serious measuring errors will result.

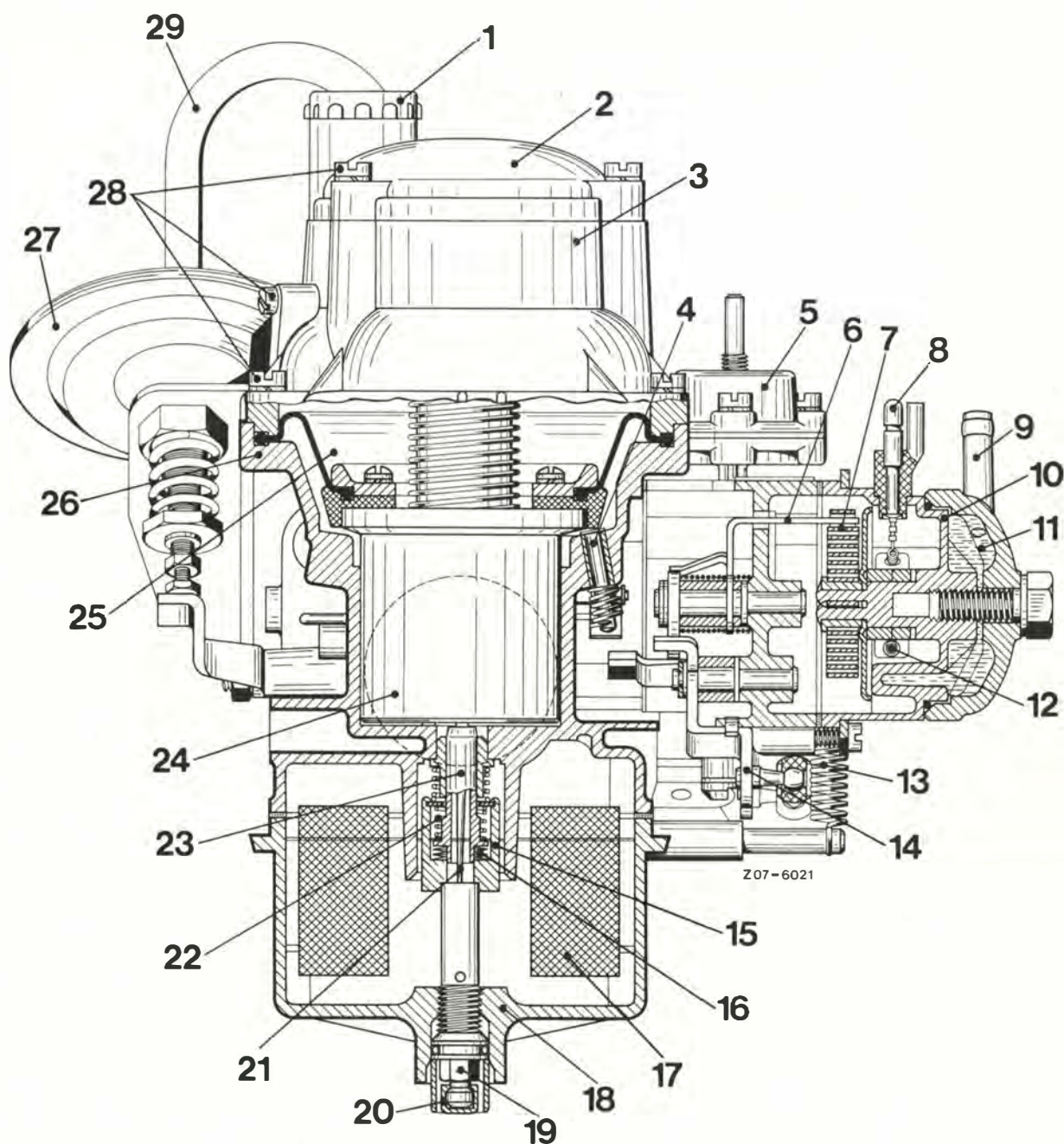


Socket wrench insert 001 589 65 09 00

- 3 Unscrew the valve adjusting screw on the intake valve of the 1st cylinder by means of the valve adjusting wrench until the valve clearance has been taken up.



Valve adjusting wrench 110 589 00 01 00



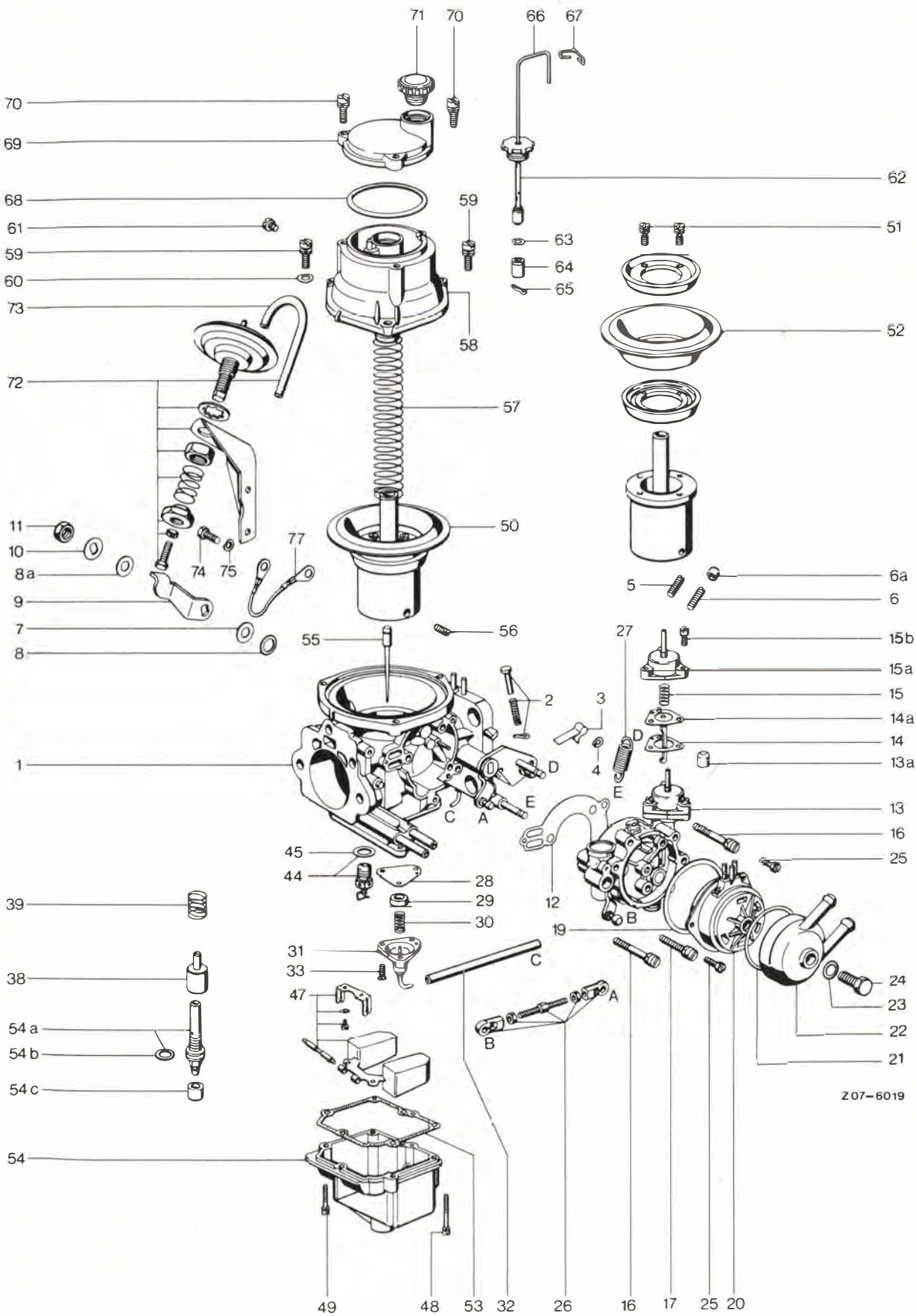
Z07-6021

Stromberg Carburetor 175 CDTU (in cross-country vehicle)

- | | | |
|--------------------------|-------------------------------------|-----------------------------|
| 1 Seal plug | 11 Water chamber | 21 Metering rod |
| 2 Closing cover | 12 Heater coil | 22 Spring |
| 3 Carburetor cover | 13 Extension spring | 23 Needle jet |
| 4 Tickler | 14 Starter lever | 24 Piston |
| 5 Pulldown | 15 Nozzle holder | 25 Vacuum diaphragm |
| 6 Driver lever | 16 Temperature compensator | 26 Carburetor housing |
| 7 Bimetal spring | 17 Float | 27 Vacuum governor |
| 8 Electr. connection | 18 Float chamber | 28 Cylindrical bolt |
| 9 Water connection piece | 19 Fuel adjusting screw | 29 Connection hose (vacuum) |
| 10 Automatic choke cover | 20 Anti-tamper device (plastic cap) | |



07.61 Illustrations, Exploded view



Z 07-6019