

Mercedes 450 SL 1972-1980 Workshop Manual

Ignition Timing

The distributor is equipped with a double vacuum cut for advancing and retarding the ignition.

To improve the quality of the combustion during idling and on the overrun, the ignition timing is retarded (Fig. 5).

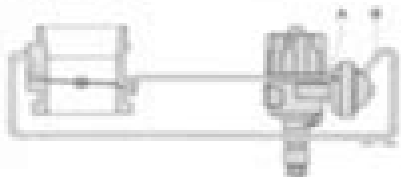


Fig. 5

- 1 Vacuum line
- 2 Vacuum valve

The double vacuum cut is controlled according to the double flap position in relation to the vacuum control unit vacuum seal force.

To adjust the ignition timing, the vacuum lines for advancing (lead) and retarding (delay) should be pulled off.

Ignition Timing Readjustment

In vehicles with air conditioning, the vacuum cut (pump) to retard is cancelled out when the air conditioner is switched on so as to maintain the engine speed during idling (Fig. 6).

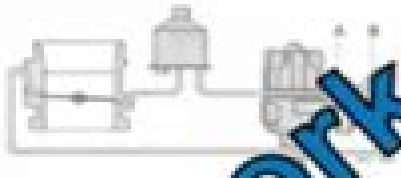


Fig. 6

- 1 Vacuum line
- 2 Vacuum valve

For this purpose a two-way valve is installed in the vacuum line between the vacuum control unit and the distributor. When the air conditioning is switched on, the two-way valve is engaged. By this means the vacuum cut at the distributor remains atmospheric pressure.

The ignition timing is advanced by about 10° by the spring in the vacuum cut. The engine speed increases by about 1000/min. at the same time.

Checking the Ignition Timing Readjustment

Connect a strobescope and a rev counter. Read off the ignition timing mark at idling speed (nominal value 700 \pm 2%). Switch on air conditioner.

The ignition should advance by about 10°.

If the ignition retardation is not cancelled in this test, the two-way valve must be renewed (Figs. 7 and 8).



Fig. 8 Model 126

Diagonal swing axle with anti-squat device



Fig. 10

The lower arm from the type 300SE (196.000) with a different rear axle ratio is installed. $r = 3.67$. This track is identical to that of the 300SE. Drive shafts with large joints on the inside and medium joints on the outside are used. On request a limited slip differential can be installed.

The use of special kinematics is a new feature, which above all prevents the vehicle from squatting when braking off. The design principle and the considerations connected with it are further explained below.

Because of the high torque of the engine M107, the further diagonal swing axle was developed further and provided with an anti-squat device.

This prevents rear-end squatting during acceleration, especially when braking off from rest. Thus the camber of the rear wheels and the full spring travel are retained, which is important for driving safety and comfort.



Fig. 11

- 1 Trailing control arm
- 2 Lower control arm
- 3 Anti-squat device
- 4 Wheel hub

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