







## 07.2–194 Removal and installation of carburetor





**Identification:** Information plate in national language on cross member in front of radiator or on cylinder head cover. Adjust engines according to data of respective exhaust gas information plate.

### Testing and adjusting values

#### Idle speed adjustment

National version	Idle speed 1/min	Idle speed emission value % CO
up to 1976	800–900	max. 1.5
 1976		max. 1.0 <b>without</b> air injection
 1976		
 1973	750–900	up to 1.5
 1974 Federal		
 1974 California	700–900	6–8 <b>without</b> air injection
 1975/76	800–900	max. 1.0 <b>without</b> air injection


#### Vacuum governor<sup>1)</sup>

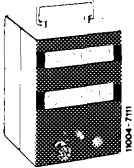
National version	Engine speed Vacuum hose pulled off 1/min		Engine speed Driving position engaged 1/min
	<b>without</b> TN choke	<b>with</b> TN choke	
 1976	–	1700–1900	600–700
 1976	–		
 1973/74	1200–1400		
 1975/76	–		

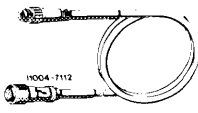
<sup>1)</sup> When engaging all auxiliary units, the engine should still run smoothly.

Tightening torques		Nm	(kpm)
Carburetor fastening nuts	with new insulating flange	10	(1.0)
	with insulating flange used up to now	8	(0.8)

**Special tools**

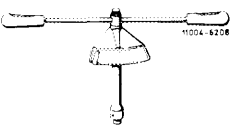
Oil telethermometer		116 589 27 21 00
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Digital tester		001 589 54 21 00
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Connecting cable 6 m long		000 589 04 90 00
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Intermediate plug (adaptor)		000 589 72 63 00
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Trigger		000 589 71 63 00
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Torque wrench 4–16 Nm (40–160 kpcm)		000 589 67 21 00
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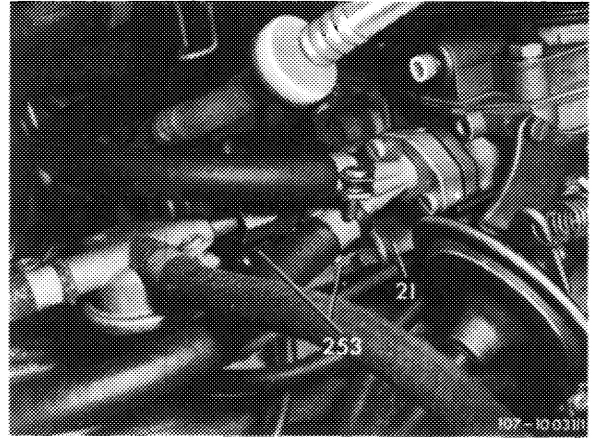
**Conventional tools**

Revolution counter, CO measuring instrument		
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## Removal

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- 1 Remove air filter.
- 2 Evacuate excess pressure in cooling system by loosening radiator cap for a short moment, then tighten cap again.
- 3 Unscrew fuel return valve. Pull off electric cable on choke cover, plug on idle speed shutoff valves, vacuum lines and coolant hoses. Disconnect regulating rod on carburetor.
- 4 Unscrew carburetor fastening nuts and remove carburetor.



## Installation

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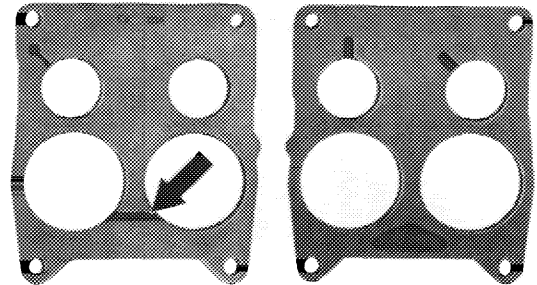
5 Install carburetor in vice versa sequence. Proceed as follows:

- Check insulating flange for damage and replace, if required.
- Pay attention to installation position and various insulating flange versions.

**USA** 1973/74

**USA** California 1974

Arrow = groove for drawing off fuel evaporation vapors, should point toward carburetor.



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**J** 1976

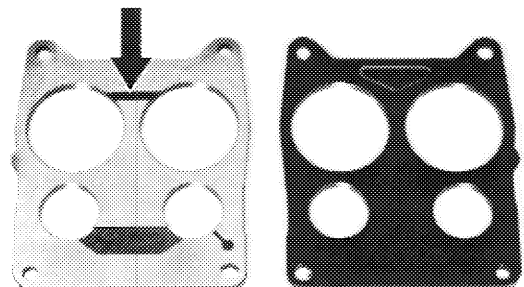
**S** 1976

**USA** 1975/76

Arrow = groove for drawing off fuel and crankcase evaporation vapors, should point toward carburetor.

### Attention!

This insulating flange should no longer be installed for model years 1973/74.

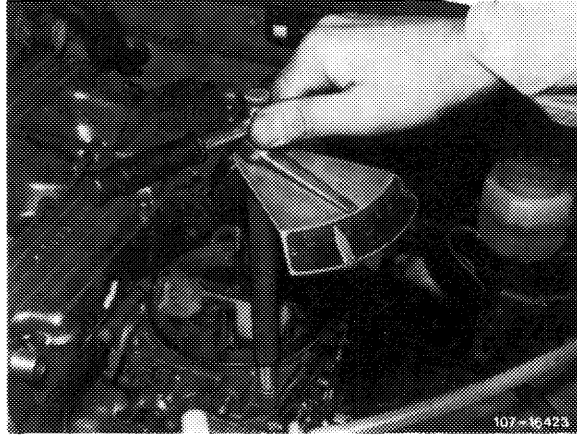


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- Tighten carburetor fastening nuts uniformly and crosswise to specified torque.

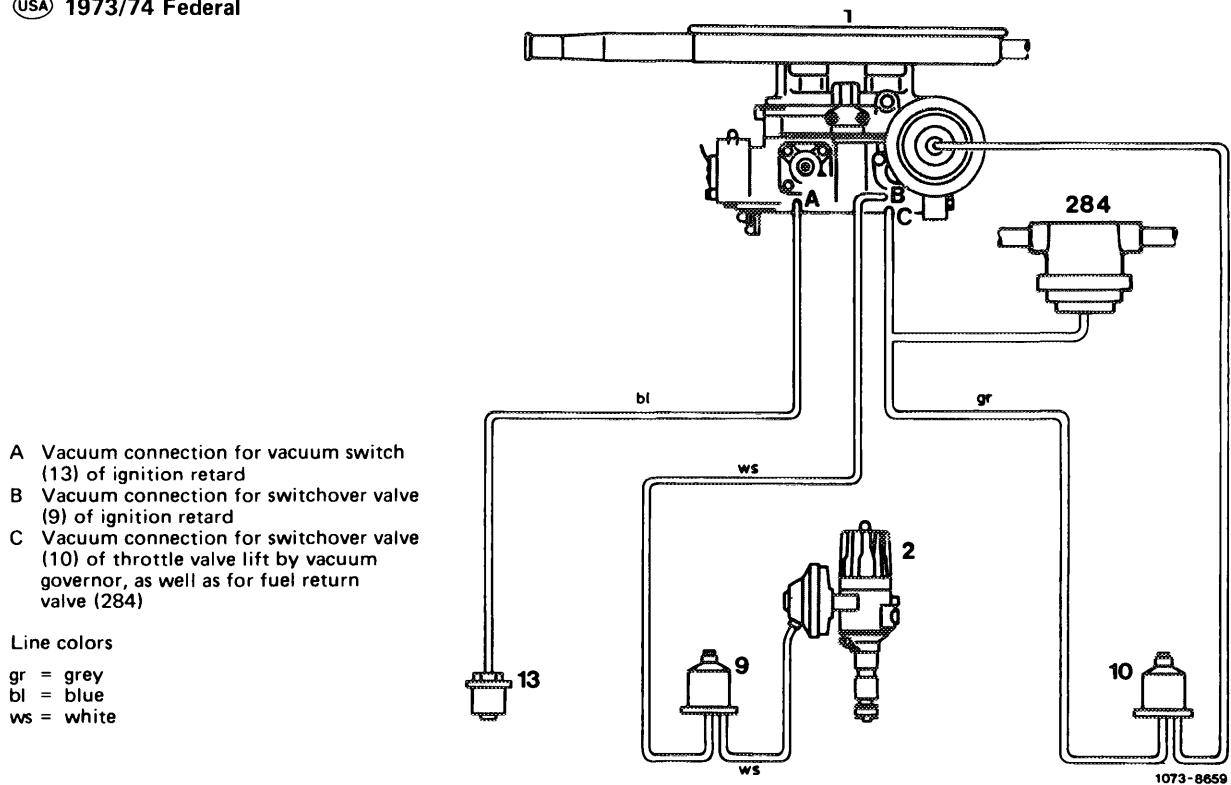
**Attention!**

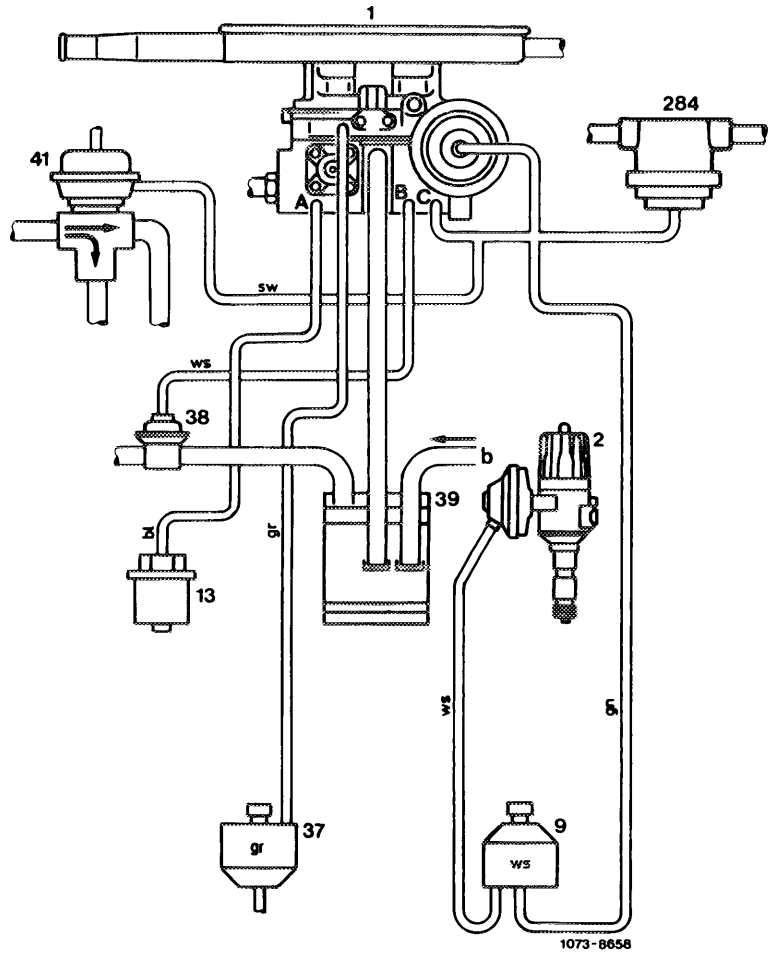
To prevent distortion of carburetor, tighten with a torque wrench only and up to specified torque.



- Attach vacuum lines on carburetor according to diagram.

USA 1973/74 Federal

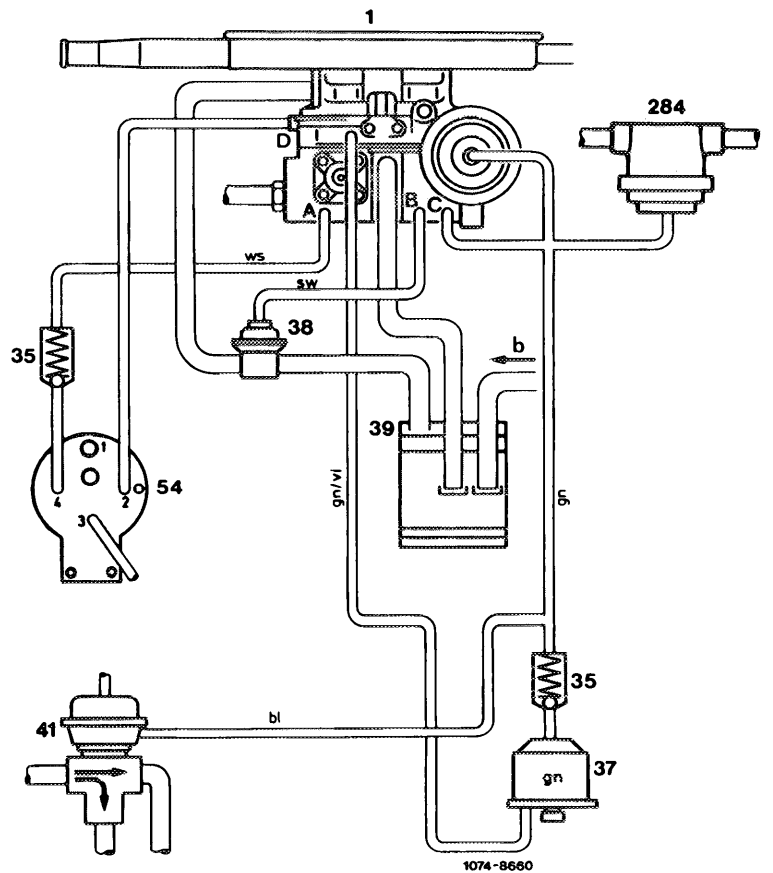




- A Vacuum connection for vacuum switch (13) of ignition adjustment
- B Vacuum connection for draw-off valve (38) of fuel evaporation control system
- C Vacuum connection for switchover valve (9) of ignition adjustment, decel diverter valve of air injection, vacuum governor and fuel return valve (284)

Line colors

- bl = blue
- br = brown
- gr = grey
- gn = green
- rt = red
- ws = white



- A Vacuum connection check valve (35) of vacuum booster for EGR
- B Vacuum connection for draw-off valve (38) of fuel evaporation control system
- C Vacuum connection for check valve (35) of float chamber vent system, vacuum governor and fuel return valve (284)

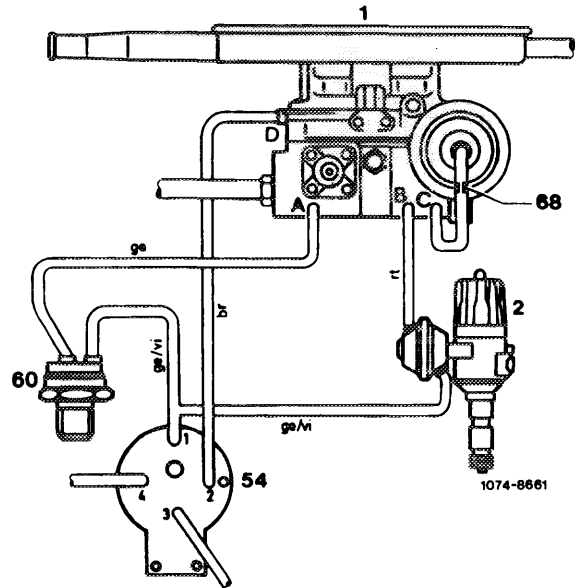
Line colors

- bl = blue
- br = brown
- gn = green
- sw = black
- vi = purple
- ws = white

- A Vacuum connection 40 °C thermovalve (60) of EGR
- B Vacuum connection for ignition advance
- C Vacuum connection for vacuum governor
- D Vacuum connection for vacuum booster (54) of EGR

Line colors

- br = brown
- ge = yellow
- rt = red
- vi = purple



6 Adjust idle speed (07.2–100).