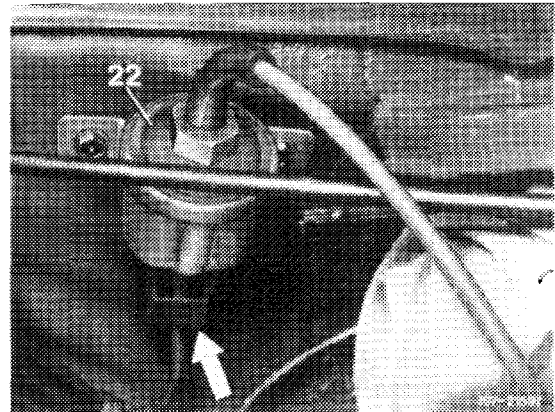
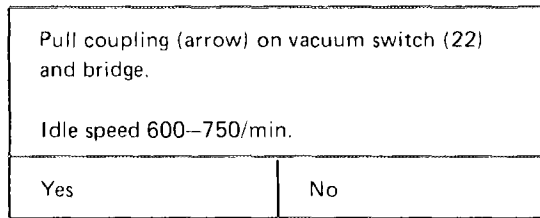
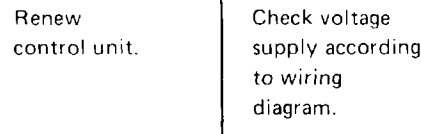
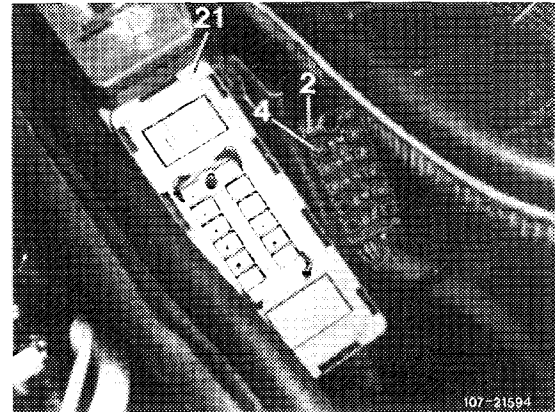


C. Idle speed and partial load identification

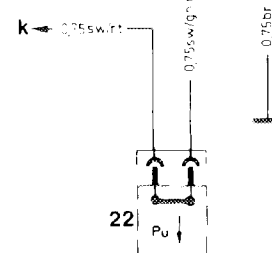
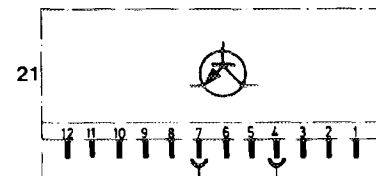
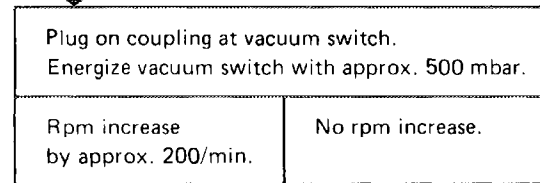
a) Vehicles with vacuum switch



Check coupling on vacuum switch and on control unit (21) according to wiring diagram.



End of test



- 21 Control unit electronic idle speed control
- 22 Vacuum switch
- k Fuse box terminal 15 fuse 12

1072-10345

Renew vacuum switch.

End of test

At slight acceleration, vacuum should be immediately established at white/yellow line.

Yes

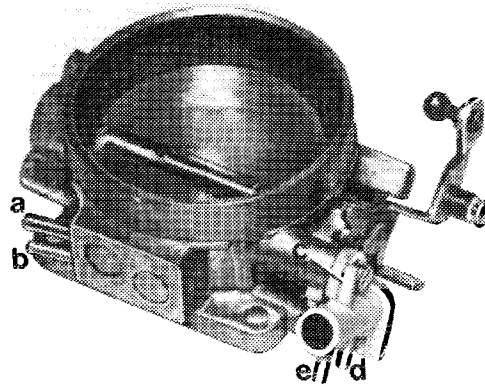
No

End of test

Check white/yellow line and connection on throttle valve housing for passage. Possible mixup with EGR at throttle valve housing.

End of test

a EGR
b Vacuum switch



107-21700

b) Vehicles with throttle valve switch

Switch off engine.
Pull off coupling (arrow) between throttle valve switch and control unit.

Test resistance of throttle valve switch. Adjust throttle valve switch or renew or poles wrongly connected (see 07.3-152).

Throttle valve switch in order

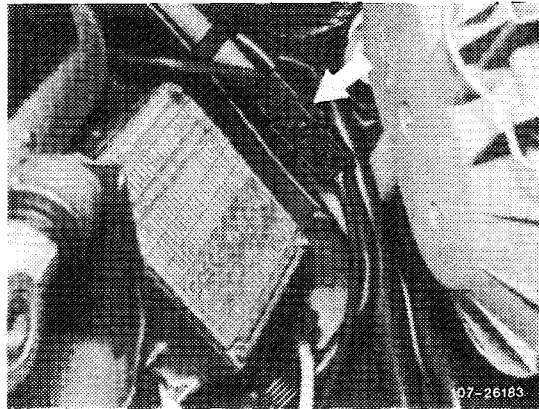
Yes

No

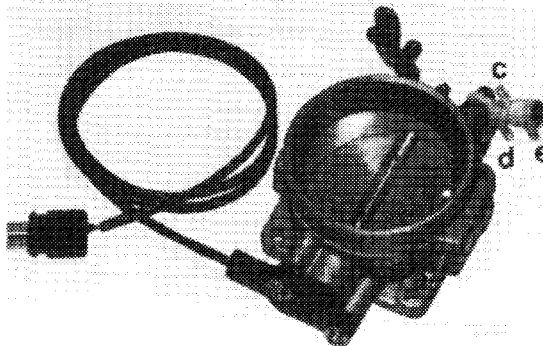
Renew throttle valve switch.

Test cables between throttle valve switch and control unit for interruption according to wiring diagram.

End of test



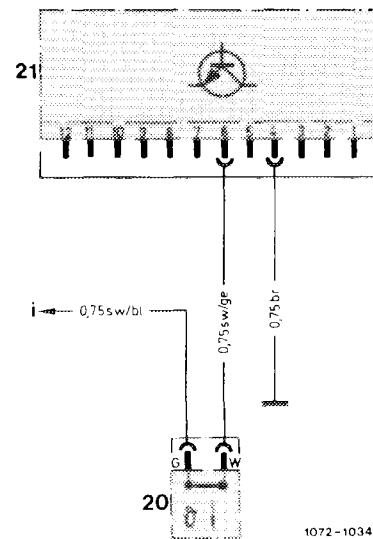
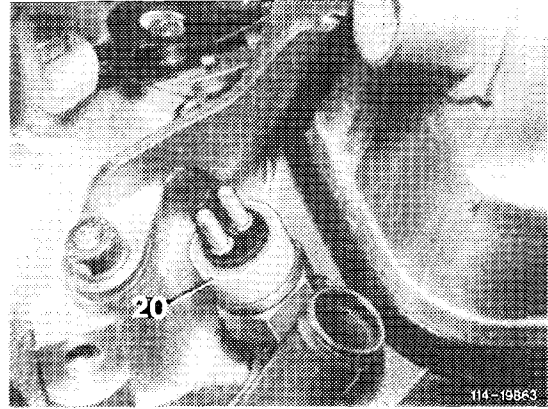
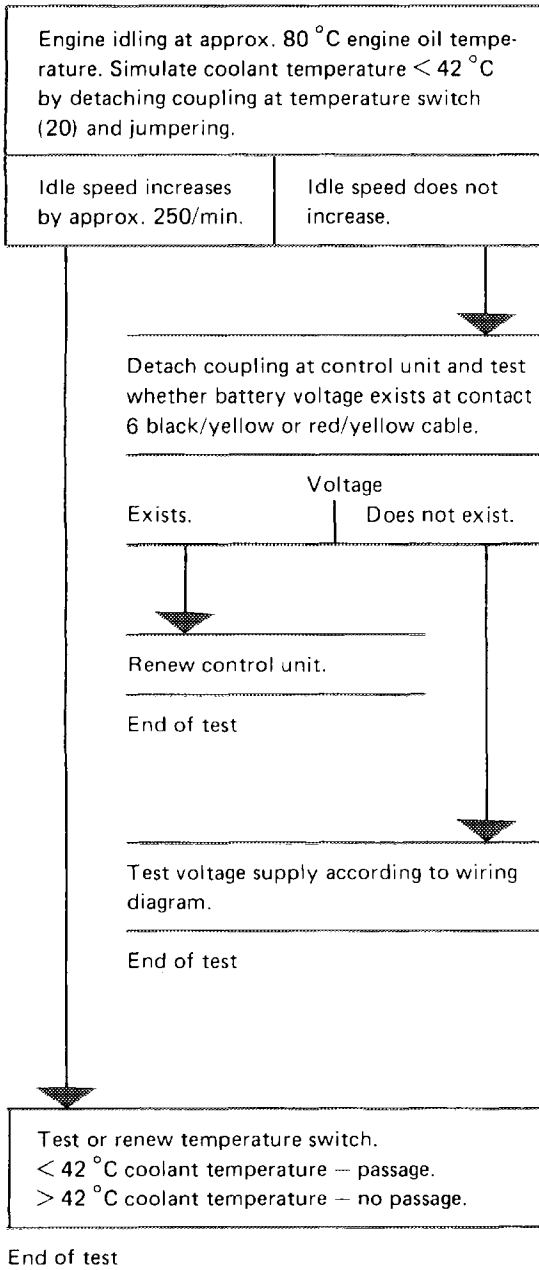
107-26183



107-25806

D. Idle speed increase when engine cold

a) Vehicles with 42 °C coolant temperature switch



- 20 42 °C coolant temperature switch
- 21 Control unit, electronic idle speed control
- i Fuse box terminal 15 fuse 12

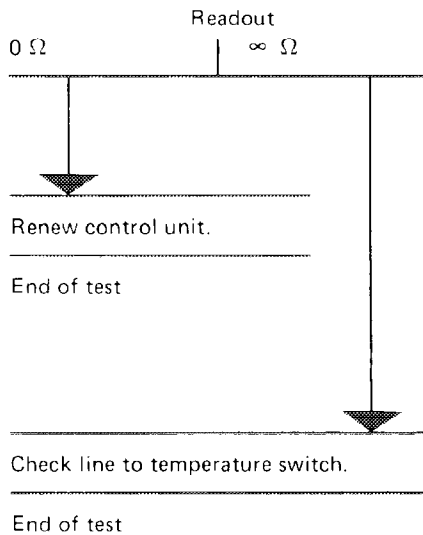
1072-10346

b) Vehicles with 16 °C oil temperature switch

Engine at idle and engine oil temperature approx. 80 °C. Selector lever in position "P" or "N". Simulate engine temperature < 16 °C. For this purpose, pull coupling from temperature switch (19) and connect to ground.

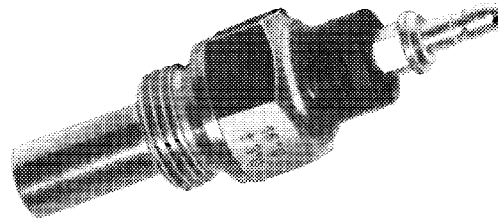
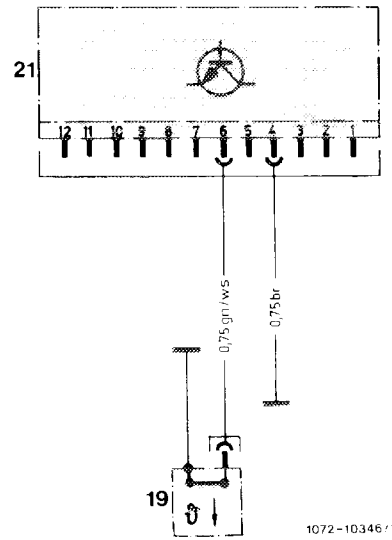
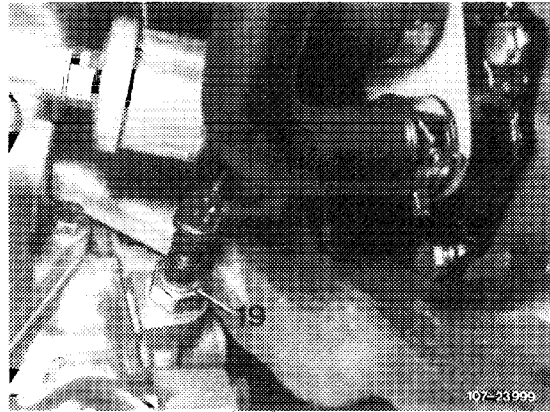
Idle speed increasing to 800–900/min.	Idle speed not increasing.
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Pull coupling from control unit and check line from jack 6 to temperature switch 16 °C oil for passage.

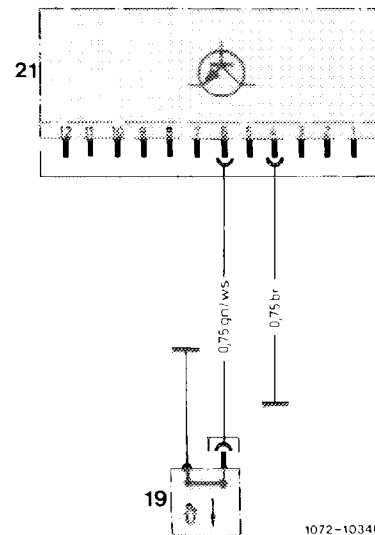
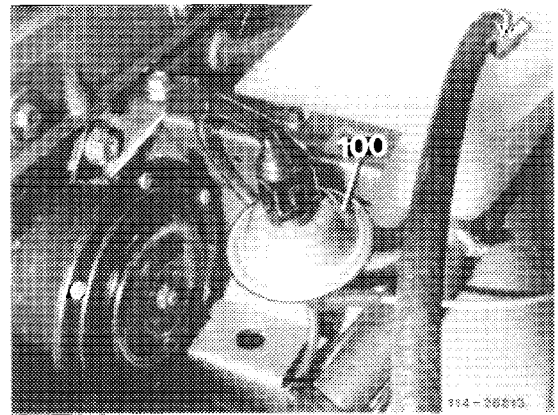
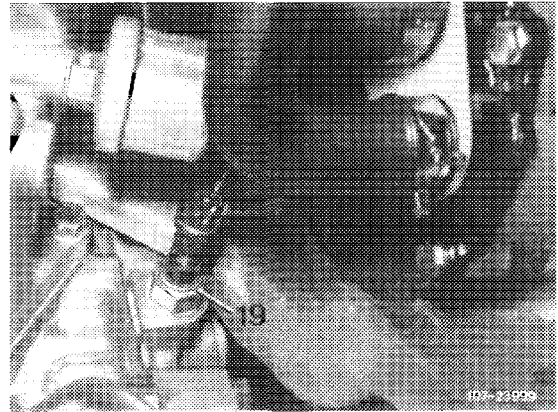
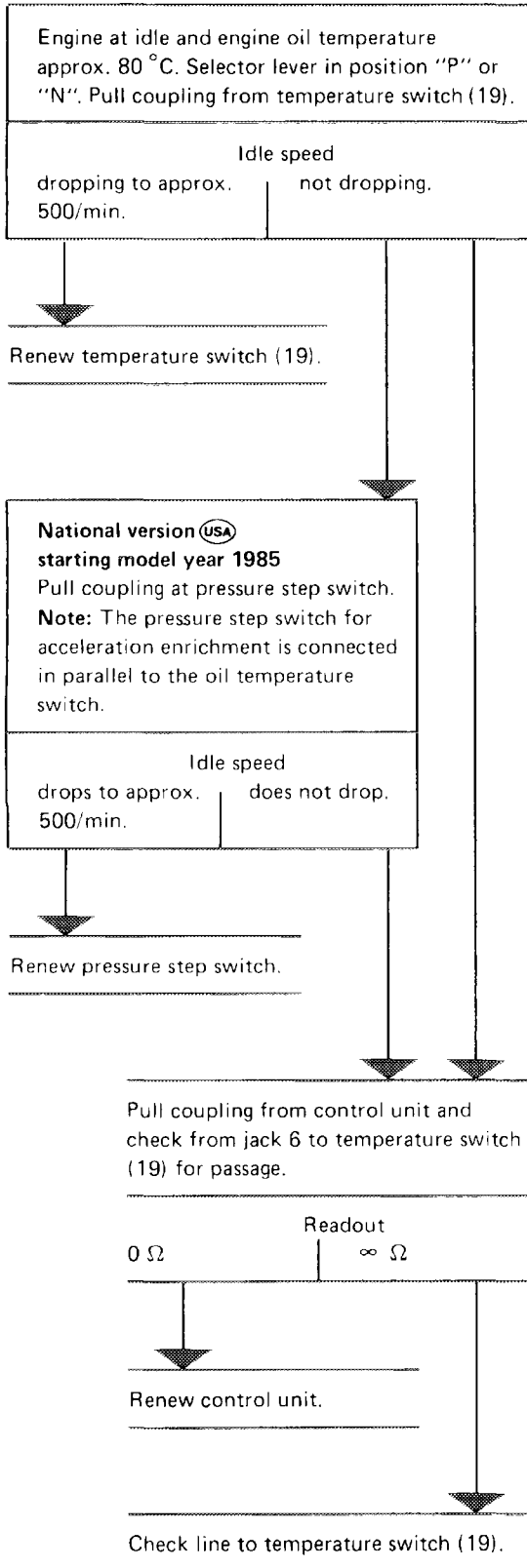


Check temperature switch or renew.
 < 16 °C engine oil temperature – passage.
 > 16 °C engine oil temperature – no passage.

End of test



E. Idle speed on warm engine too high



1072-10346/1

End of test

F. Assignment of auxiliary functions

Version	Idle speed and part load identification		Idle speed increase when engine cold by	
	Vacuum switch	Throttle valve switch	42 °C coolant temperature switch	16 °C oil temperature switch
Basic version starting September 1981 to April 1983 Standard Standard KAT (open-loop)	X	—	X	—
Basic version starting may 1983 Standard Standard KAT (open-loop) National version Ⓐ Ⓒ Ⓓ starting model year 1984	—	X	X	—
National version Ⓙ Ⓚ Engine 116, model year 1981/82	—	X	X	—
National version Ⓙ Ⓚ Engine 116 starting model year 1983 Engine 117 starting model year 1984 Basic version NV KAT (closed-loop)	—	X	—	X