

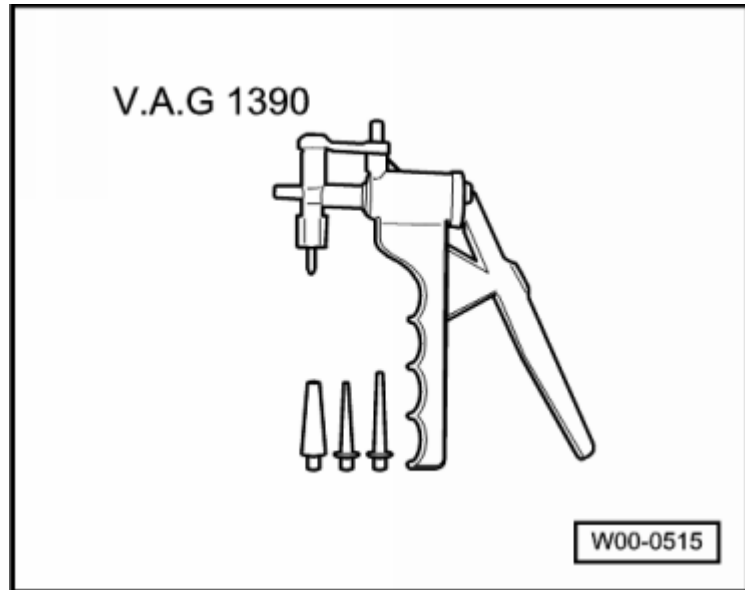
# Checking combination valve for secondary air system for proper operation and leakage

## Special tools and workshop equipment required

- † Hand-operated vacuum pump - V.A.G 1390-

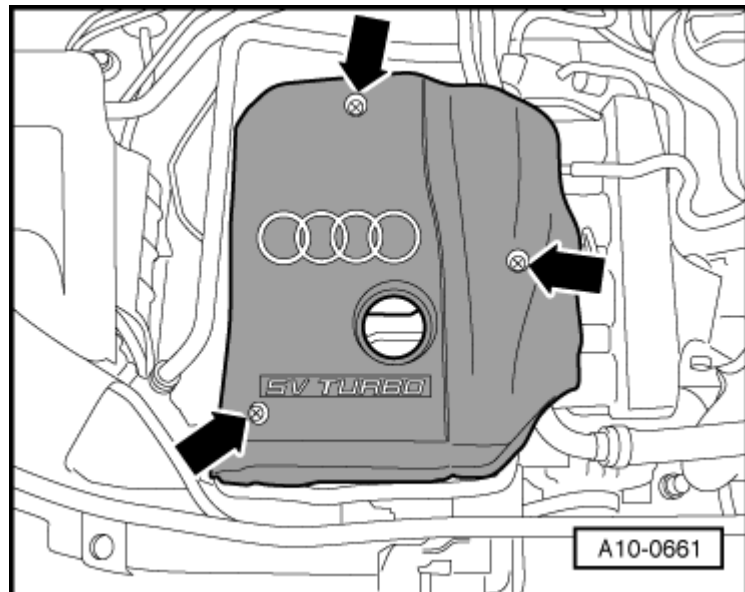
## Test requirements

- 1 Vacuum hoses and hose connections do not leak.
- 1 Vacuum hoses are not clogged.



## Test sequence

- Release quick fasteners -arrows- and remove engine cover panel.

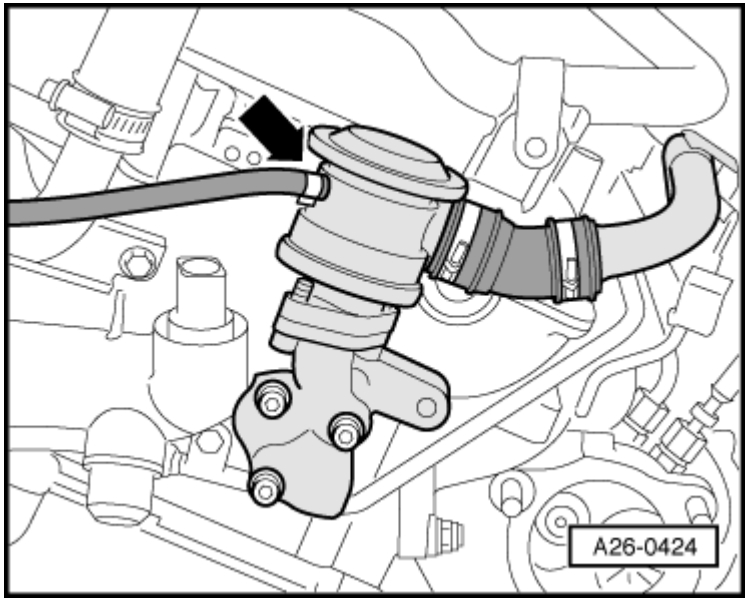


- Detach vacuum hose -arrow- at combination valve.

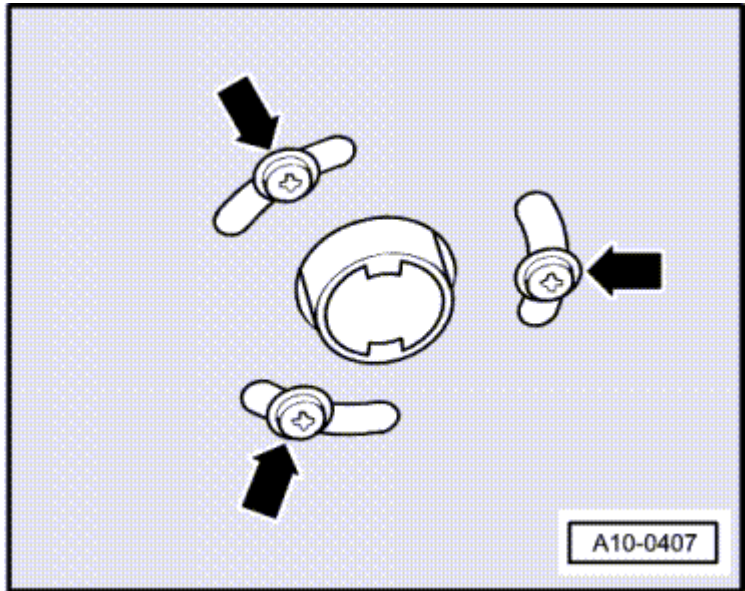
### Note

*Shown from rear with engine removed for illustration purposes.*

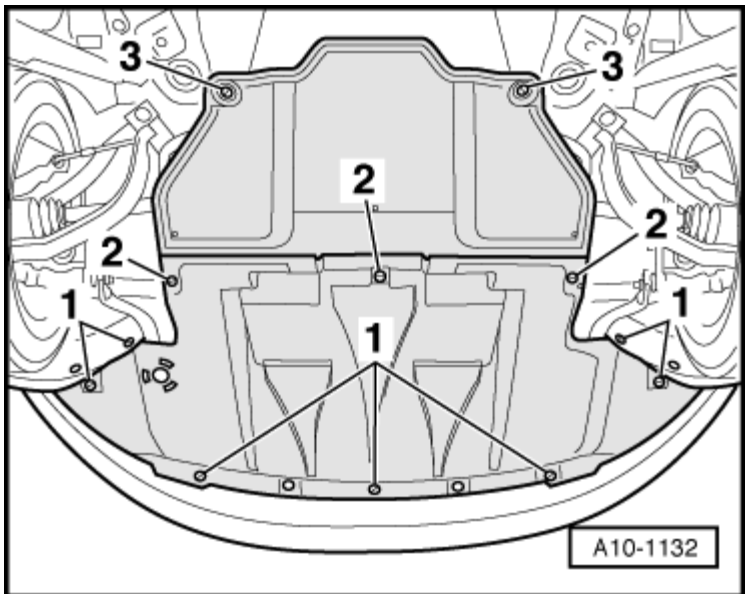
- Connect the hand vacuum pump - V.A.G 1390- to vacuum connection of combination valve.



- Vehicles with auxiliary heater: remove bolts -arrows- securing exhaust pipe for auxiliary/additional heater to noise insulation.



- Release quick-fasteners -1- and -2- and take off front noise insulation.



- Detach pressure hose -arrow- from secondary air pump motor -V101- and

blow into it with light pressure (do not use compressed air).

- 1 The combination valve must be closed; blowing through must not be possible.
- Create vacuum using hand-operated vacuum pump -V.A.G 1390-.
- 1 The combination valve should open; it should now be possible to blow through the hose.

If the combination valve does not open:

- Renew secondary air combination valve  
→ Chapter.

