Tech Tips

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All 2004 and Newer Vehicles with Electronically Controlled Cooling Fan – Cooling Fan Diagnosis Tips

The pin-out for an electronically controlled cooling fan is as follows:

1. Terminal 30 battery power
2. Key ON power
3. Pulse width modulated (PWM) control signal from ECM
4. Ground

- Duty cycle of PWM control signal from ECM determines fan speed, for example key on is 25%, low fan speed is 50%, high speed is 75%.
- When the fan control module has key ON power, it must receive a PWM control signal from the ECM. If control signal is not present with key on power, fans will run constantly.
- Early vehicles such as Touareg, Phaeton, and W8 Passat will run the cooling fans all the time when a cooling system fault is present in ECM.

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