Technical Messenger

Workshop Information

MAHLE

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Issue no. 03/2017: Incorrectly fitted air filter element LX 2049/4 in Audi V-type engines

If an air filter element is incorrectly fitted, this can cause noise disturbance and generate entries in the fault memory. Possible cause: the air filter element is fitted at an angle.

In Audi models with 2.8 FSI, 3.0 TDI, 3.0 TFSI, and 4.0 TFSI V-type engines, the fitting position of the air filter is not always readily apparent (see Figure 1). As a result, the air filter element may be positioned off-centre in the air filter housing (see Figure 2).

Incorrect positioning of the element can lead to the malfunctions indicated above, resulting from turbulence and unfavourable flows that distort the signal coming from the air mass flow meter. Additionally, this also lets unpurified air into the engine, leading in turn to increased wear and other consequential damage.

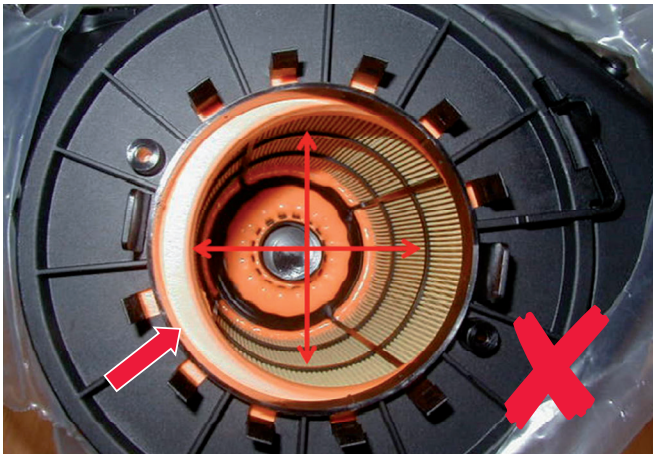

Figure 2: Air filter element is off-centre, letting unpurified air into the engine (see arrow)

Figure 1: Air filter as fitted in a V6 3.0 TDI engine

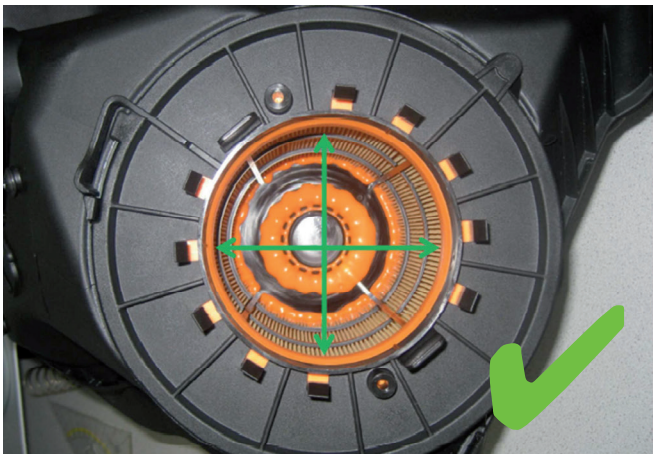

Figure 3: Properly centred air filter element

IMPORTANT! When changing a filter, always make sure to position the air filter element properly by engaging the element at the bottom on the support in the filter housing and at the top on the centring tabs on the cover.