



## INA Service Info



# Chain drive: metallic noise

## Broken plastic rail of the lower timing chain guide

Manufacturers: OPEL, VAUXHALL

Models: ASTRA J, INSIGNIA A / B, MERIVA B,  
MOKKA, ZAFIRA TOURER C

Years: since 2013

Fuel type: Diesel

Engine code: A16 DTH, B16 DTC, B16 DTE, B16 DTH,  
B16 DTJ, B16 DTL, B16 DTN, B16 DTR,  
B16 DTU, D16 DTE, D16 DTI, D16 DTH,  
D16 DTJ, D16 DTN

Art.-Nr.: 559 1008 10, 559 1008 20  
559 1008 40, 559 1008 50



Image 2: Gasket between the engine block and the chain tensioner

In the indicated engines, the following may occur:

- Metallic noises coming from the timing chain at engine start-up;
- The need for replacement of the chain kit caused by the breakage of the chain guide (Image 1).



Image 1: Breakage of the chain guide

The timing chain tensioner, together with the new gasket, prevents the occurrence of vibrations generated by incorrect tension of the timing chain, thus avoiding excessive stress on the chain guide and preventing their breakage. This gasket can be found in the INA repair kits listed above. Check the online catalog for details.

### Recommendations:

- In case of component breakage, additionally check for the presence plastic fragments in the engine oil sump, the oil pump, the oil filter and clean the system and replace components if necessary;
- If the oil warning light comes on at high mileages, check the condition of the oil pump, the oil filter and replace it if necessary;
- During kit replacement, we invite you to follow the instructions about INA Service Info 0178 for optimal chain lubrication.

Please observe the vehicle manufacturer specifications!

In both cases, the problem can be attributed to low oil pressure in the timing chain system. There is a new version of the tensioner that prevents the oil contained in the chain tensioners pre-filled chamber from returning to the engine oil sump during periods of vehicle downtime. This is made possible by using a very thin gasket that, due to its design, ensures that the correct amount of oil is always present in the pre-filled chamber of the tensioner (Image 2).

### You want more? We can help!

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