



Timing Cover Oil Leak on 2020-2024 Alfa Romeo 2.0L Engines

The AERA Technical Committee offers the following information regarding a timing cover leak on 2020-2024 Alfa Romeo 2.0L engines. Customers have reported a leak coming from the timing cover area of these engines to AERA member shops.

This leak is caused from the timing cover bolts becoming loose over time. To repair the leak, follow the procedure below.

1. Apply sealant and install the front cover.
2. Using a digital torque wrench (recommended), mark each bolt, making sure that the mark is on the bolt head and the valve cover, and loosen the bolts one at a time. Then return the bolt back to the mark made earlier. Record the torque value at this mark as it should be 6.3-8.1 FT/LBS. To properly torque the bolt, follow the sequence supplied in Figure 1.
3. If the torque value is found to be below the 6.3 FT/LBS limit, proceed as follows. Using a digital torque wrench (recommended), loosen the bolts, and tighten to a torque of 3.7 FT/LBS + 40°. The torque value now should read between 6.3-8.1 FT/LBS. A mechanical torque wrench can also be used by applying a torque of 7.4 FT/LBS.
4. Clean off any residual oil and check for leaks after running the engine for 10 minutes.
5. If leaks are still present, remove the cover and remove all the sealers from the cover.
6. Apply new sealer, shown in Figure 2 and torque to 7.4 FT/LBS rechecking for leaks.

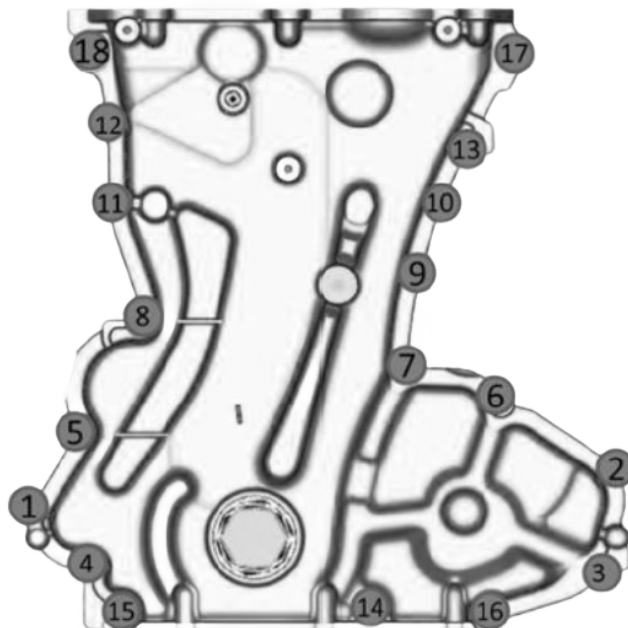


FIGURE 1: Timing Cover Torque Sequence

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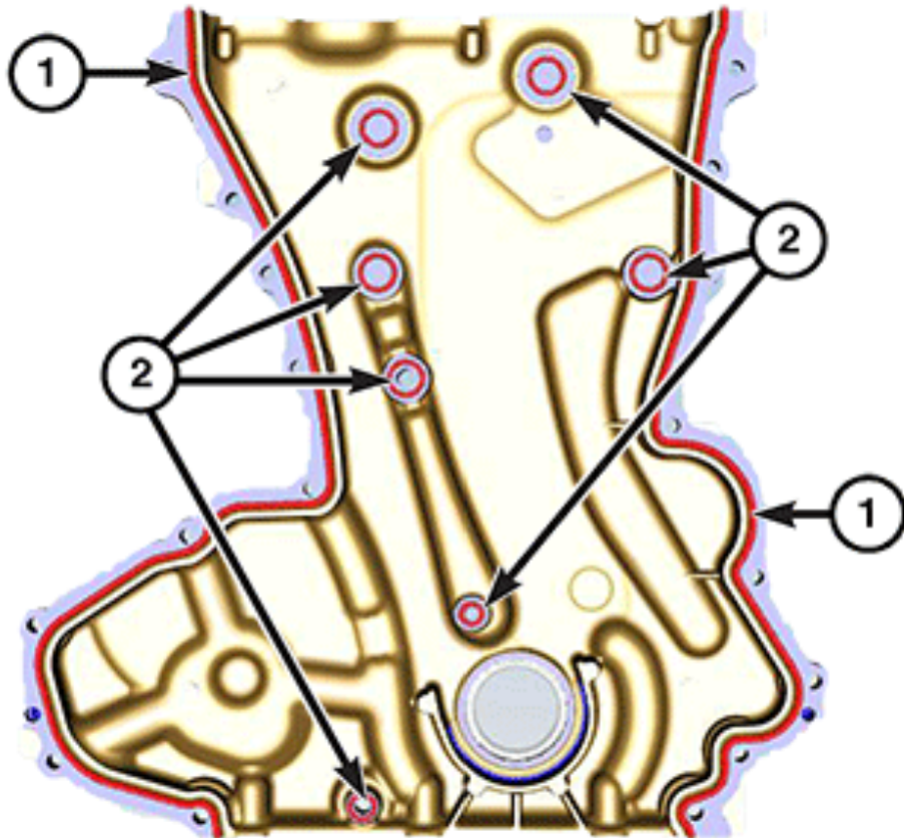


Figure 2: Sealer Locations and Bead Size
1. 3 to 4 mm diameter bead of sealer
2. 2 to 3 mm diameter bead of sealer