

Oil in The Spark Plug Tube on 1989-97 Nissan 2.4L KA24E Engines

The AERA Technical Committee offers the following information on accumulated oil in the spark plug tubes on 1989-1997 Nissan 2.4L KA24E engines. This condition is usually reported after an engine misfire occurs and all cylinders have been affected.

The cause of leakage is the rubber seal mounted within the valve cover. While replacing those seals would be a viable option to repair this condition, valve cover replacement is the approved repair operation. The rubber seals are captured within the cover and removing them is highly unlikely without causing damage to the surrounding area. To date, there are no replacement seals available from Nissan or the aftermarket.

To save time when dealing with this condition, obtain a new valve cover from Nissan or aftermarket suppliers. Follow the procedure listed below to allow for a successful repair when installing a new valve cover.

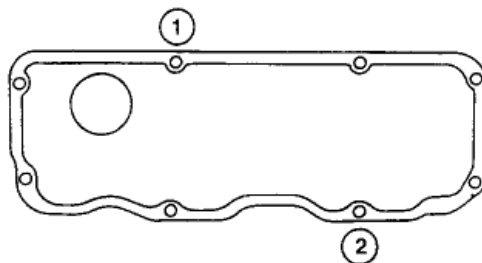


Figure 1. Tighten 2 Bolts Only in Sequence to 23 IN/LBS

- Install only the two bolts shown in Figure 1 and tighten to 26 IN/LBS
- Then, tighten the remaining bolts in sequence to 95 IN/LBS as shown in Figure 2.
- Parts are available in the aftermarket and Nissan with Part #1326486G01

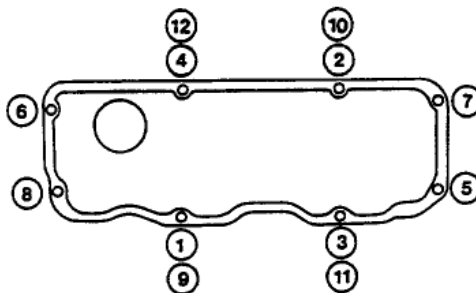


Figure 2. Tighten ALL Bolts in Sequence to 95 IN/LBS