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TECHNICAL REPORT

Rocker cover gasket for 2.0
CRDI D4EA 112CV engines part
number: 56031000 & 56037500



PURPOSE

To indicate the **main differences between the KIA and HYUNDAI** aforementioned gaskets in order to help the AJUSA client choose the right one according to the manufacturing year.

DESCRIPTION

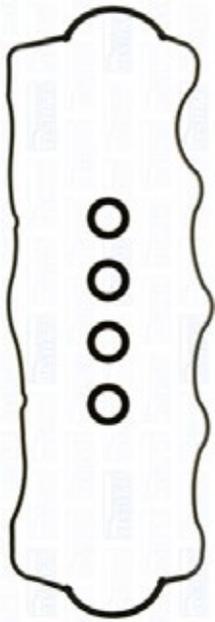
In the popular turbo diesel **2.0 CRDI 112cv** engines that some models from brands like KIA and HYUNDAI use, whose type of engine is known as D4EA, the rocker cover gasket, among other components, **changes depending on the manufacturing year**, so there is a possibility of mounting two different rocker cover gaskets.

Such rocker covers are very similar in shape and design, but there are some **dimensional differences** in the housing where the gasket fits in. Therefore, if you don't choose the gasket correctly, it will not fit well in the cover, leading to an oil leakage.

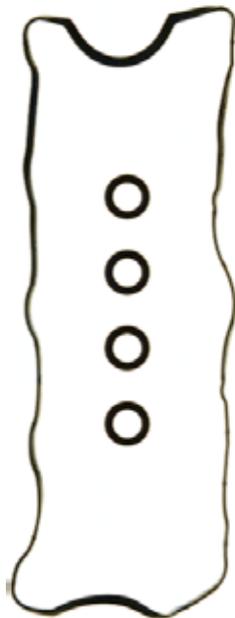
For that reason, it is crucial to choose the right gasket to install according to the model and manufacturing year of the vehicle.

In this way, the affected models would be the following:

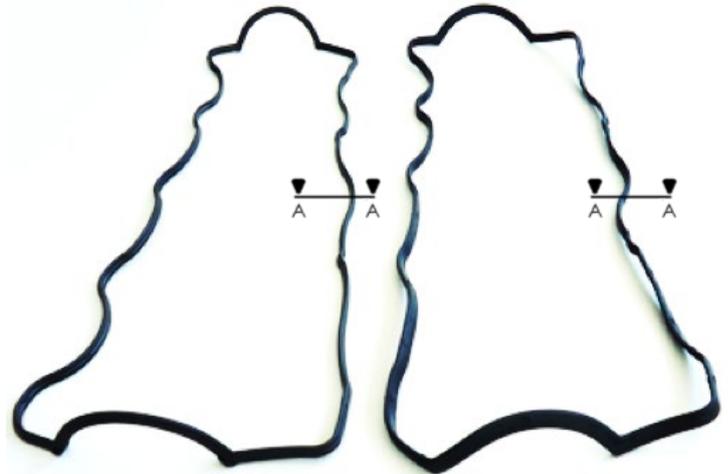
BRAND	MODEL	MANUFACTURING YEAR		AJUSA PART NUMBER
		SINCE	TO	
HYUNDAI	TRAJET CRDI 16V	01/2000	06/2005	56031000
	ELANTRA CRDI 16V	06/2000	06/2005	
	SANTA FE CRDI 16V	02/2001	06/2005	
KIA	CARENS II CRDI 16V	04/2002	07/2005	56037500
HYUNDAI	TUCSON TCI 16V	04/2004	06/2005	
KIA	CERATO CRD 16V	02/2004	02/2005	
	CARENS II CRDI 16V	07/2005	08/2006	
	CERATO CRD 16V	02/2005	09/2006	
	MAGENTIS 16V	09/2006	08/2008	
	NEW SPORTAGE 16V	09/2006	--	
	OPTIMA 16V	09/2006	08/2008	
	CARENS III 16V	11/2006	--	
SPORTAGE 16V	05/2007	--		



56031000



56031000



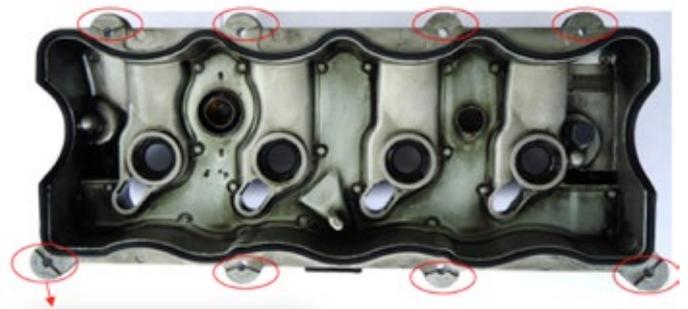
11089500

11105900

As can be seen in the previous images, the gaskets sections differ to a large extent.

The rocker cover has some mechanical stops that rest on the cylinder head and limit the distance between the rocker cover and the cylinder head. Those mechanical stops accomplish two main goals:

- To limit the closing pressure to avoid gasket damage.
- To homogenize the closing pressure against the cylinder head.



In case of installing **set 56031000** in the wrong rocker cover, as the gasket has a lower height, it will remain below the mechanical stops and it won't seal over the cylinder head. As a result, a remarkable oil leakage will occur.