

# TECHNICAL REPORT

Design changes in cylinder  
head gasket 10190900 of  
Toyota engines 1ZR/2ZR/3ZR

## REASON

Inform about the design changes produced in this cylinder head gasket in order to **improve its performance**.

## DESCRIPTION

1ZR, 2ZR and 3ZR Toyota engines (1598, 1798 and 1987 cc, respectively) **changed their cylinder head gasket** reference in June 2008 due to a **design change**. From now on, 10180300 reference is superseded by 10190900 reference.

OEM design sometimes **changes the size and coolant holes shape** in order to make them more effective. Increasing their size in areas away from the coolant pump and decreasing, or even removing, those coolant holes from areas close to the pump.

Therefore, during the installation of a new Ajusa cylinder head gasket it could be possible to find **some hole size differences with OEM**. Then, take a look at the different design changes of the attached gasket:

2ZR-FAE ENGINE



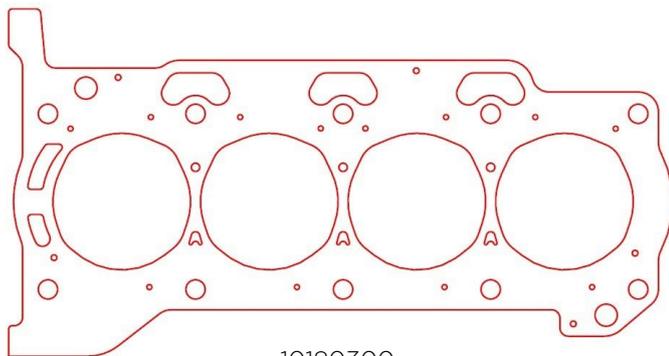
10180300 | OLD DESIGN



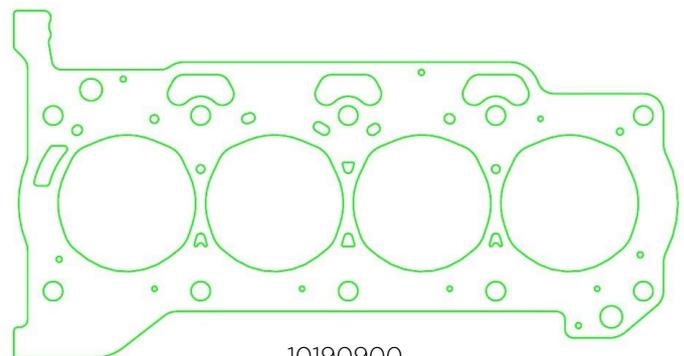
10190900 | NEW DESIGN



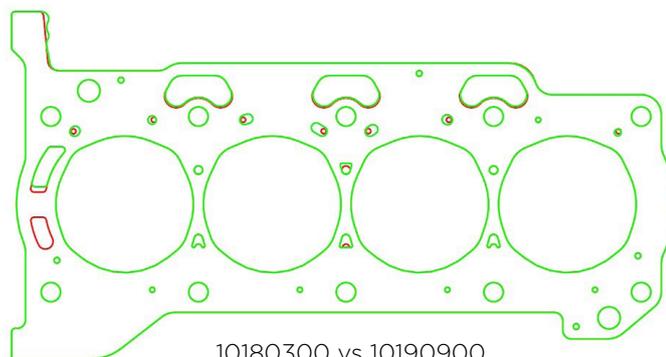
As you can see, there are **some changes in the coolant holes** between both cylinder head gaskets.



10180300



10190900



10180300 vs 10190900

If you **find the old design** during a replacement process, it is mandatory to **replace it for the new design**, 10190900.