



Different oil injection nozzles with 1.9 litre unit injector engines

Situation

The piston cooling system has been modified by the manufacturer in the engine models listed below. Modified oil injection nozzles are now in use due to redesign of the openings to the piston cooling channel. When replacing pistons it must be ensured that the right oil injection nozzles are installed. The photographs show the old and the new injection nozzle design.

The pistons supplied by Motor Service correspond to the new design.



Old design



New design

Additional information

The old piston cooling design involved the so-called combi-cooling system. With the side-angled injection nozzle the oil jet was directed into the opening of the cooling channel at bottom dead centre and to the underside of the piston crown at top dead centre. With the new straight injection nozzle design, the oil jet is always directed into the opening of the piston cooling channel whatever the piston position.

| Vehicle manufacturer | Model | Engine code |
|----------------------|---|---------------|
| AUDI | A4, A6 1.9.TDI | AJM, ATJ |
| SEAT | Alhambra 1.9 TDI | AUY, BVK |
| VOLKSWAGEN (VW) | Bora 1.9 TDI Golf IV 1.9 TDI Passat 1.9 TDI Sharan 1.9 TDI | AJM, ATJ, AUY |
| FORD | Galaxy 1.9 TDI | AUY |

| Parts information | Old version | New version | Remarks |
|---|--|--|--|
| O.E. oil injection nozzle reference number* | 028 103 157 A Angled version | 038 103 157 B Straight version | |
| O.E. piston reference number* | 038 107 065 CC 038 107 065 CB | 038 107 065 DH 038 107 065 DJ | Cylinder 1+2 Cylinder 3+4 |
| KS piston article number | None None None None | 99 842 600 99 842 620 99 843 600 99 843 620 | Cylinder 1+2 STD Cylinder 1+2 oversize +0.5 mm Cylinder 3+4 STD Cylinder 3+4 oversize +0.5 mm |

The right of changes and deviating pictures is reserved. For exact details about applications, please refer to our current catalogue / CD / OnlineShop.

* The reference numbers given are for comparison purposes only and must not be used on invoices to the consumer.