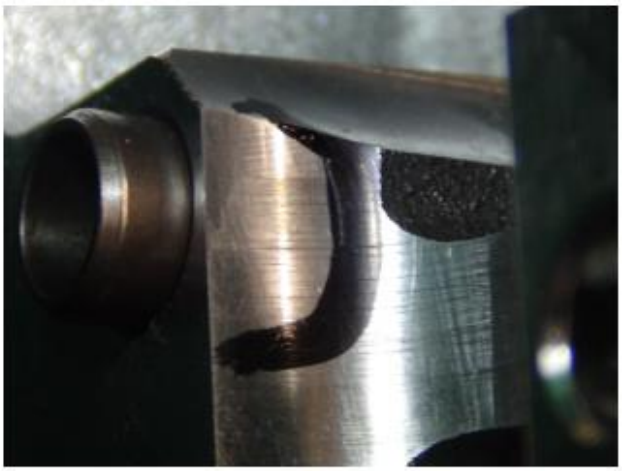
TOYOTA 3.0 (1KZT – 1KZTE)

7 September, 2016

BRIDGE OVER-TIGHTENING OF THE CYLINDER HEADS ON THE TOYOTA 3.0 (1KZT – 1KZTE)

We have seen cases in which clients indicate that the camshaft for these engines becomes locked, thus preventing rotation.

The actual cause of this problem is the deformation produced by over-tightening its screws, which is producing the ovalling and conicity of the internal camshaft borings. The bridge is squashed onto the cylinder head and the aluminium bridge base resulting in this bridge deforming inwards when this combination of perpendicular forces occurs.



The "Instruction Sheet" (SEE APPENDIX 570226) that is included in each packing box with the cylinder head indicates that the bridge screw tightening torque must not exceed 18 Nm, otherwise their design means they are liable to suffer permanent deformation. Their numeration must also be maintained.

MONTAJE DEL ÁRBOL DE LEVAS

En las culatas **TOYOTA 908780 y 908782** los puentes del árbol de levas están numerados y han de montarse en la misma posición en la que vienen montados de fábrica.

Para evitar deformaciones graves en los puentes, el par de apriete de **18 Nm** (1,8 Kp.m) no debe excederse.

CAMSHAFT ASSEMBLY

In the **TOYOTA** cylinder heads, **908780** and **908782**, the camshaft caps are numbered and have to be fitted in the same position as received from **AMC**.

To avoid severe deformations in those caps the tightening torque of **18 Nm** (1.8 lbf.ft) has not to be exceeded.

MONTAGE DE L'ARBRE A CAMES

Les culasses, **TOYOTA** , **908780 et 908782** ont des chapeaux d'arbre à cames numérotés et doivent eter montés sans la même postion qu'en usine.

Pour eviter de graves deformations ne pas depasser un serrage de **18 Nm** (1.8 Kp.m).

EINBAU DER NOCKENWELLE

Die Nockenwellebrücke von den **TOYOTA** Zylinderköpfen, **908780** und **908782**, sind nummeriert und sollen an den korrespondierenden Stellen montiert werden.

Um ernsthafte Deformationen zu vermeiden soll das Andrehmoment von **18 Nm** (1.8 Kp.m) nicht überschritten werden.