

TECHNICAL REPORT

Cylinder head gasket with
adjustment sheet in
Kubota engines

SCOPE

Inform the customers about the **installation of the adjustment sheet** of the cylinder head gasket of **KUBOTA brand**.

DESCRIPTION

There are several engines of Kubota brand of tractors which, in addition with the cylinder head gasket, presents a **metallic sheet of low thickness (0.20mm)** which has a similar shape as the cylinder head gasket.

This sheet is a reinforcement that must be installed only in certain cases, between the cylinder head gasket and the engine block.

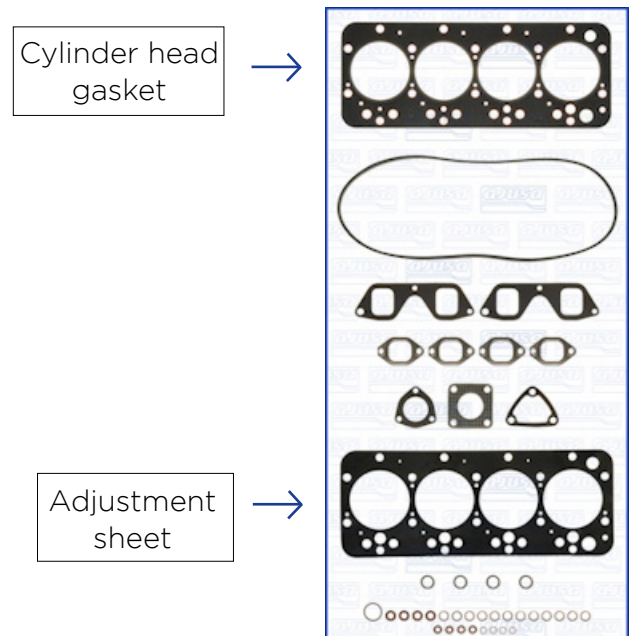
It will not be necessary to install the adjustment sheet in the following case:

- If the engine doesn't have it installed, and it is not going to perform the replacement of any of the elements in point 3.

It will be necessary to install the adjustment sheet in the following cases:

- When dismantling we observe that the engine already has it installed.
- If the engine doesn't present this sheet, but the replacement of one of the following elements has been made: pistons, connecting rods, crankshaft, etc.

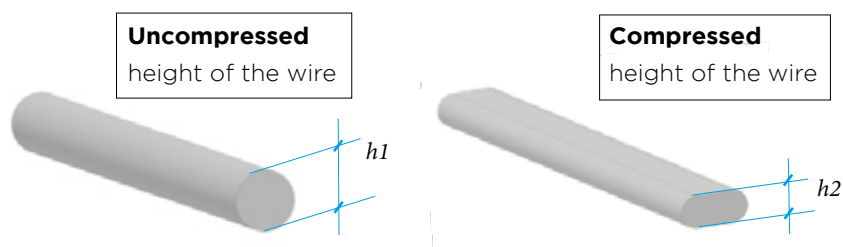
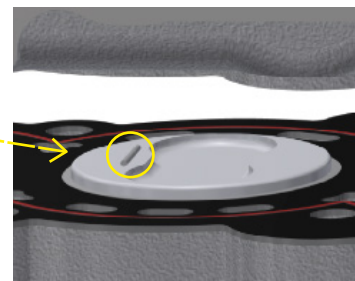
Despite the replacement of some of these elements, it will be necessary to calculate the neutral space between the piston and the cylinder head, in its TOP DEAD CENTER, to determine if it has been modified.



The verification process would be the following:

- Fit the cylinder head gasket without the adjustment sheet.
- Place on top of each piston a soft, prehensible material (**tin wire**).
- Fit the cylinder head and the gasket (without the adjustment sheet), applying a tightening torque of 80-90 Nm.
- Turn the engine manually until the pistons have compressed the material, being equivalent to put the pistons on the TOP DEAD CENTER.
- Disassemble the cylinder head and see the thickness of the material used (**h₂**), which should be between the following values:

Tin wire



Model	H2
V-4300-1A/ V-4000-3A	0.8 - 1 mm
V3300-E	0.70 - 0.80 mm
V3300-TE / V3300TIE	0.90 - 1.10 mm

- If the measurement is below the lower value of these ranges, it will be necessary to install the 0.20 mm adjustment sheet that AJUSA includes in the gaskets sets for these vehicles.

The adjustment sheet must be placed below the fiber head gasket, as indicated in the following picture.

Cylinder head

Cylinder head gasket

Adjustment sheet

Crankcase

