

Enhanced Sealing Coolant Baffle for Engine Block Cooling Passages

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A seal design provides an improvement to liquid flow-by using a baffle **1** for engine block cooling passages.

The baffle plastic design provides a seal, but does have some flow-by because to fully seal a cooling passage would prevent the installation and extraction of the baffle seal. A tension hinge **2** is used to allow retention while holding the baffle in place creating the seal. The tension hinge also provides a “snap” feel providing an indication to the assembly person that baffle is fully installed.

By over molding in specific areas, with more pliable high temperature plastic or heat resistant cross linked elastomers, the tension hinge mechanism will function to allow installation and extraction of baffle **3** while completely sealing, eliminating any flow-by of coolant.

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