

Title (en)  
ENGINE COOLANT CROSSOVER ASSEMBLY

Title (de)  
VERBUNDUNGSVORRICHTUNG FÜR DIE KÜHLFLÜSSIGKEIT VON MOTORKÜHLUNGEN

Title (fr)  
ENSEMBLE D'INTERCOMMUNICATION POUR LIQUIDE DE REFROIDISSEMENT DE MOTEUR

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Application  
**EP 00955536 A 20000815**

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Abstract (en)  
[origin: WO0112962A1] In a preferred embodiment, an engine coolant crossover assembly (10) includes a crossover conduit member (12) carrying an integral liquid cooled alternator (14) and liquid cooled exhaust gas recirculation valve (16). The integration of one or both of these parts into the coolant crossover eliminates many parts from the total assembly. These parts include: attachment brackets, coolant hoses, hose clamps, cast mounting clocks, coolant tubes and attachment bolts. Reduction of these parts reduces system costs, assembly time, mass and potential coolant leak paths. A temperature sensor (18) and a thermostat housing (20) may also be included in the crossover assembly (12). The assembly may also be made part of an intake manifold (56) for an integrated air fuel module (58) of V-type engine.

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