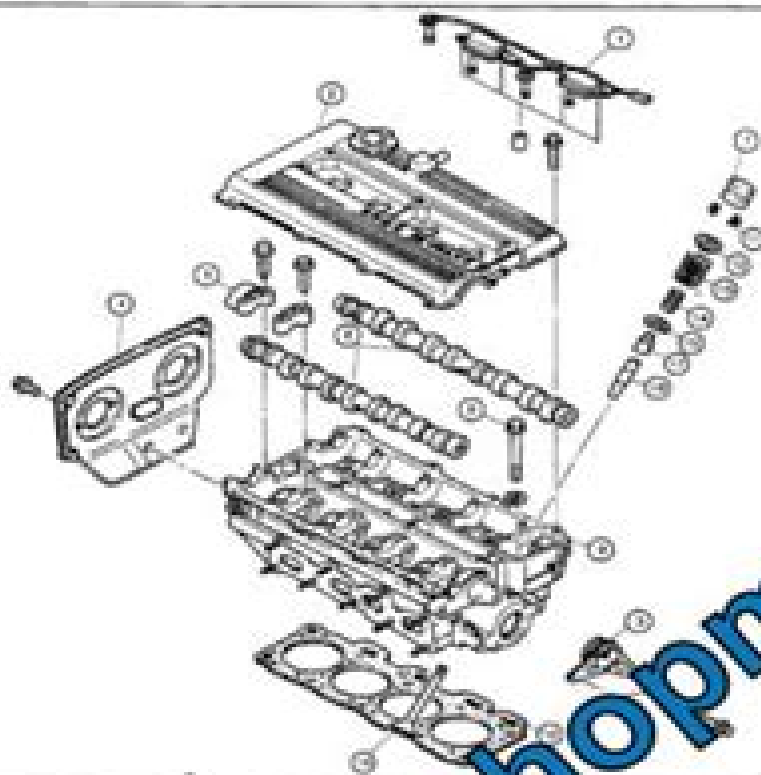


KIA Sportage 1993-2004 Workshop Manual

FE DOHC ENGINE 10-2

CYLINDER HEAD



1. Ignition Coils and High Tension Leads
2. Cylinder Head Cover
3. Camshaft Position Sensor
4. Seal Plate
5. Camshaft Caps
6. Camshafts

7. Hydraulic Lifters
8. Outer Valve Spring
9. Inner Valve Spring
10. Lower Spring Seat
11. Valve
12. Valve Stem Seal
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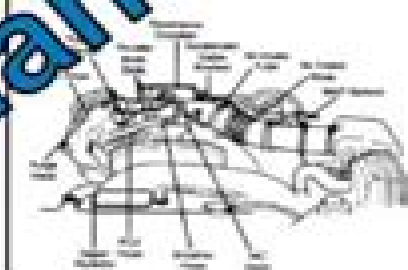
INTAKE MANIFOLD

Removal

1. Disconnect negative battery cable.



2. Release the fuel system pressure to Fuel System, Section 1.
3. Remove the negative cable bracket to cylinder head.

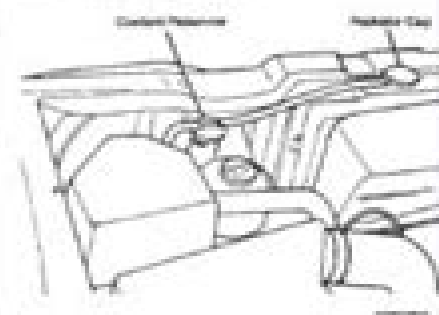


4. Remove the two air intake tube to cylinder head cover bolts.
5. Remove the three air intake tube to throttle body bolts.
6. Loosen the clamp from the air intake hose to MAP sensor.
7. Remove the idle air control valve hose, the breather hose and the vacuum line from the air intake tube.
8. Remove the air intake tube and air intake hose as an assembly.
9. Remove the PCV hose from the dynamic chamber.

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10. Remove the radiator cap.



11. Loosen the radiator drain plug and drain the engine coolant into a suitable container.
12. Tighten the radiator drain plug.



Kia Sportage Shop Manual

Joe L. Hamilton, John Harold Haynes

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the authors' names.

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jan 1 2017 the objective of the present work is to perform thermal design of a shell and tube heat exchanger that using htri

software to makes the process energy efficient