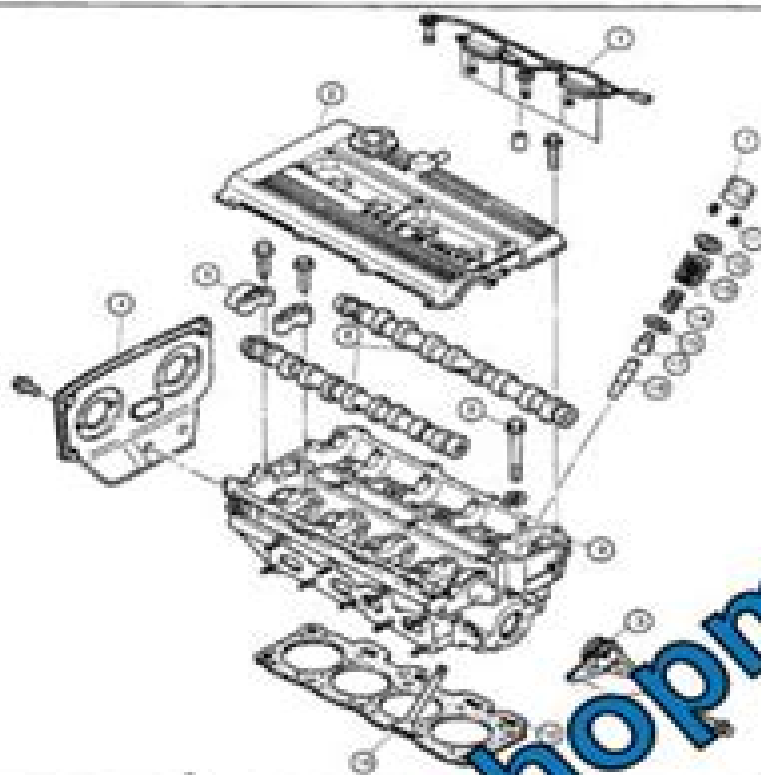


# KIA Sportage 1993-2004 Workshop Manual

FE DOHC ENGINE 10-2

FE DOHC ENGINE 10-1

## 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
13. Valve Guide

13. Outer Valve Spring
14. Inner Valve Spring
15. Lower Spring Seat
16. Valve
17. Valve Stem Seal
18. Valve Guide

## 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.

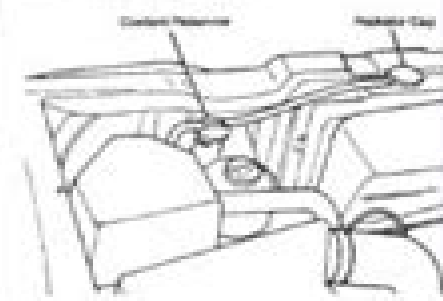


4. Remove the two air intake tube to cylinder head cover bolts.
5. Remove the three air intake tube to throttle body bolts.
6. Loosen the clamp from the air intake hose to MAP sensor.
7. Remove the idle air control valve hose, the breather hose and the vacuum line from the air intake tube.
8. Remove 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 Overhaul Manual

**Editors of Haynes Manuals**

A red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located to the right of the 'Editors of Haynes Manuals' text.

## **Kia Sportage Overhaul Manual:**

## Unveiling the Energy of Verbal Art: An Psychological Sojourn through **Kia Sportage Overhaul Manual**

In a world inundated with monitors and the cacophony of fast interaction, the profound energy and mental resonance of verbal art often disappear into obscurity, eclipsed by the continuous barrage of sound and distractions. Yet, situated within the musical pages of **Kia Sportage Overhaul Manual**, a captivating work of fictional elegance that pulses with organic thoughts, lies an remarkable journey waiting to be embarked upon. Written by way of a virtuoso wordsmith, that magical opus manuals visitors on an emotional odyssey, softly revealing the latent potential and profound influence stuck within the intricate web of language. Within the heart-wrenching expanse of this evocative analysis, we can embark upon an introspective exploration of the book is central styles, dissect their captivating writing model, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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