

Name _____

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

1) What is the purpose and function of exhaust system hangers?

2) What are the three main jobs of the air cleaner and filter?

3) How does a muffler quiet exhaust noise?

4) What is a variable intake manifold?

5) How can fuel-injected engine intake manifolds be tuned to improve engine performance?

Answer Key

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1) The muffler and tailpipe are supported with brackets, which help to isolate the exhaust noise from the rest of the vehicle.

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2) The three main jobs of the air cleaner and filter include:

- Clean the air before it is mixed with fuel
- Silence intake noise
- Act as a flame arrester in case of a backfire

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3) A muffler quiets the exhaust by smoothing out the high-pressure exhaust pulses and allowing them to be released at an even and constant rate.

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4) Variable intake manifolds, commonly called a variable-length intake manifold (VLIM), allow the engine to produce a higher level of torque and horsepower over a wide range of engine speeds.

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5) Intake manifold runners are tuned to improve engine performance.

- Long runners build low-RPM torque.
- Shorter runners provide maximum high-RPM power.

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