

Name \_\_\_\_\_

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

1) How does the computer monitor catalytic converter performance?

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2) What tests can be performed by a service technician to test the catalytic converter?

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3) What are the three most common catalysts used in a catalytic converter?

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4) Why must a catalytic converter be mounted close to the exhaust ports of the engine?

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5) How does a catalytic converter reduce NOX to nitrogen and oxygen?

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## Answer Key

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1) The PCM monitors catalytic converters efficiency by checking the downstream oxygen sensor switch rates to the switch rate of the upstream oxygen sensor. If the switch rates are similar, the catalytic converter efficiency is low.

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2) A service technician can check the following:

1. Backpressure using a pressure gauge or individually by using a vacuum gauge
2. Testing for temperature rise
3. Check for efficiency by using the oxygen level tests

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3) Rhodium, palladium, and platinum are used in most catalytic converters.

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4) The catalytic converter is most efficient if it is mounted as close as possible to the exhaust ports of the engine where the exhaust is the ho

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5) As the exhaust gas passes through the catalyst, oxides of nitrogen (NO<sub>x</sub>) are chemically reduced (i.e., nitrogen and oxygen are separated) in the first section of the catalytic converter.

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