

Name \_\_\_\_\_

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

1) What two items may need to be added to the wiring of a vehicle to control or reduce radio noise?

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2) Why do AM signals travel farther than FM signals?

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3) What are the purpose and function of the ground plane?

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4) How do you match the impedance of speakers?

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5) What can affect the reception of a satellite radio signal?

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## Answer Key

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- 1) A capacitor can be added to the power input to the radio and a braided ground strap can be added to the ground to help reduce radio noise.  
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- 2) AM signals travel longer distances than FM signals because they bounce off the upper atmosphere. FM waves do not reflect back to earth like AM waves.  
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- 3) The ground plane represents one-half of the length of the antenna.  
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- 4) Speakers must be matched with the same impedance to allow all of the speakers to receive the same power, not only to produce the best sound possible, but also to help equalize the current through the speaker driver circuits.  
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- 5) Reception from satellites can be affected by tall buildings and mountains.  
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