

Name _____

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

1) What are the terms used to describe a stop-start system?

2) What moves the starter drive into mesh with the engine ring gear?

3) What are the parts of a typical starter?

4) Why are there two windings in the starter solenoid?

5) What is the difference between the control circuit and the power (motor) circuit sections of a typical cranking circuit.?

Answer Key

Testname: AEEP8_SHORT17

- 1) Various vehicle manufacturers refer to stop/ start systems using different terms including:
 - o Stop/Start
 - o Idle-Stop(Honda)
 - o SmartStop(Toyota)
 - o IntelligentStopandGo(Kia)
 - o AutoStart/Stop(BMW)
 - o EngineStop-Start(ESS)-Chrysler

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- 2) The starter solenoid is used to engage the starter drive and control the current from the battery to the starter motor.

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- 3) Parts of a typical starter include: main field housing, commutator-end housing and drive-end housing, plus the armature, field coils, brushes, and starter drive.

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- 4) The heavier-gauge winding (called the pull-in winding) is needed to draw the plunger into the solenoid and is grounded through the starter motor. The lighter-gauge winding (called the hold-in winding), which is grounded through the starter frame, produces enough magnetic force to keep the plunger in position.

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- 5) The control circuit includes those wires and components that carry a relatively small current, such as the ignition switch, safety switch, and solenoid. The power circuit carries the heavy current needed to crank the engine and includes the battery itself, plus the battery cables, solenoid, and starter motor.

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