

Name \_\_\_\_\_

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

1) How are solenoids used to control the shifting on electronically controlled automatic transmissions/transaxles?

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2) What are the solenoids used in a typical electronically controlled automatic transmission/transaxle?

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3) What are the parts of a typical clutch pack assembly?

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4) What are three planetary gear set apply devices?

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5) How are shift points achieved with a hydraulically controlled automatic transmission/transaxle?

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## Answer Key

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- 1) Solenoids allow passages to be opened or closed so that shift valves can be used to send hydraulic fluid pressure to the clutches/bands.  
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- 2) Electronically-shifted automatic transmissions/transaxles typically use two shift solenoids, a pressure control solenoid, and a torque converter clutch solenoid.  
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- 3) A typical clutch pack assembly includes the friction plates, steel plates (reaction plates), wavy plate, backing plate, clutch piston, spring assembly, and snap ring(s).  
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- 4) The three holding devices include bands, multi-plate clutches, and one-way clutches.  
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- 5) Shift points are achieved with a hydraulically-controlled automatic transmission/transaxle by using a governor to monitor vehicle speed and a throttle valve or vacuum modulator valve to determine engine load.  
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