

Name \_\_\_\_\_

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

1) Describe the engine break-in procedure.

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2) What is meant by "lugging" an engine?

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3) What should be done to help prevent rear cylinder distortion when the bell housing is being installed on the engine?

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4) Why should the clutch, if equipped, be adjusted before starting the engine?

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5) How are the clutch and bell housing installed?

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## Answer Key

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- 1) To break in a new engine, the vehicle should be driven in a moderate manner without over revving the engine or lugging the engine. Accelerate the vehicle from 30-50 mph at full throttle a total of 10-12 times to seat the piston rings.  
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- 2) Lugging means increasing the throttle opening without increasing engine speed (RPM).  
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- 3) The bell housing must be torqued to the correct amount and procedure to help prevent engine cylinder bore distortion.  
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- 4) Always adjust the clutch free play before starting the engine to help prevent engine thrust bearing or clutch release bearing damage.  
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- 5) The following clutch parts should be installed: clutch disc, pressure plate, pilot bearing, clutch release bearing and clutch fork. Use a clutch disc alignment tool to install clutch disc, then install pressure plate, clutch fork and release bearing, then install bell housing.  
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