

Name _____

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

1) What is the purpose of the weight found on some drive axle shafts?

2) Why must Cardan-type U-joints on a drive shaft be within ½ degree working angles?

3) Why is necessary to replace a dented drive shaft?

4) What makes a constant velocity joint able to transmit engine torque through an angle at a constant velocity?

5) What type of grease must be used in CV joints?

Answer Key

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1) Some drive axle shafts are equipped with what looks like a balance weight. It is actually a dampener weight used to dampen out certain drive line vibrations. The weight is not used on all vehicles and may or may not appear on the same vehicle depending on engine, transmission, and other options.

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2) Cardan-type U-joints on a drive shaft must be within $\frac{1}{2}$ degree working angles to prevent excessive drive line vibration.

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3) The surface is in tension, and cracks can develop on the outside surface of the driveshaft due to metal fatigue. Driveshaft tubing can bend and, if dented, can collapse. A dented driveshaft should be replaced and no attempt should be made to repair the dent.

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4) A constant velocity joint is designed to always split the working angle of the joint exactly in half resulting in no change of speed between the input and the output of the joint assembly.

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5) CV joints require specific grease as supplied by the vehicle or CV joint manufacturer. CV joint grease is usually molybdenum disulfide-type commonly called "moly" grease.

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