

PULLEY SYSTEMS - REVERSING ROTATION

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On behalf of The World Association of Technology Teachers

W.A.T.T.



World Association of Technology Teachers

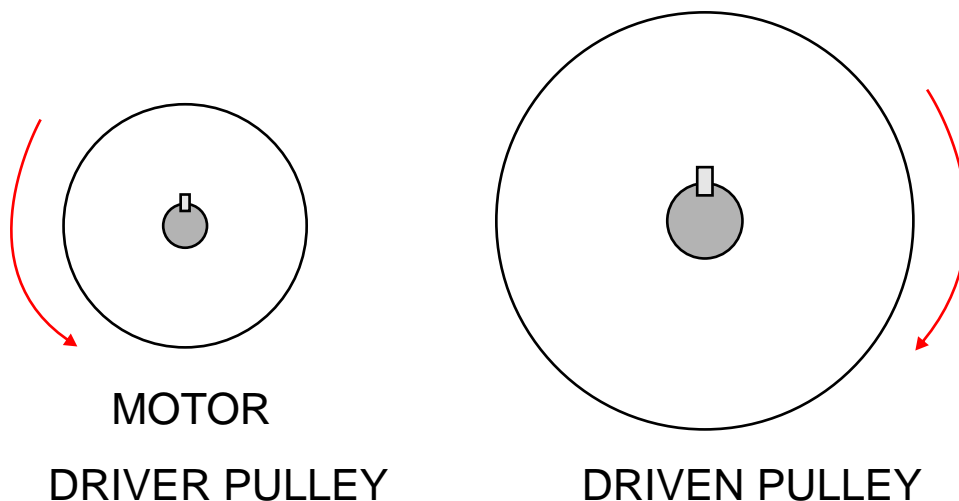
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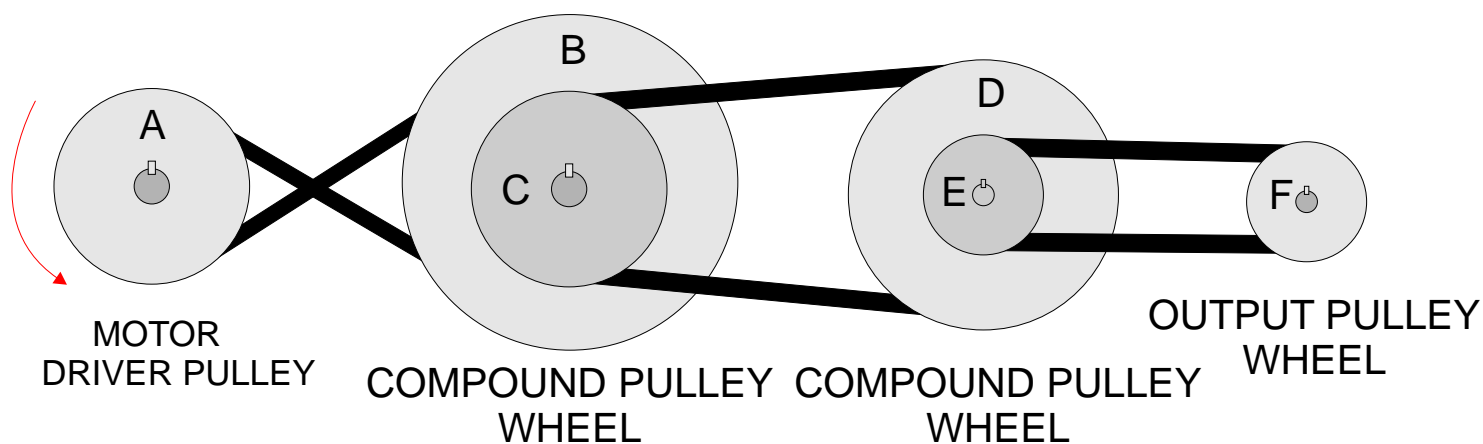
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1. Sometimes it is necessary to reverse the rotation of the driven pulley wheel in relation to the driver pulley. If the driver is rotating in an anti-clockwise direction the driven pulley may be required to rotate in a clockwise direction. On the incomplete diagram shown below, add the belt that connects the driver and driven pulley wheels. Remember, it must reverse rotation at the driven pulley wheel.



2. A system of four pulley wheels are set up as shown in the diagram below. The driver pulley rotates in an anti-clockwise direction. Draw the direction of rotation on each of the pulley wheels, with arrows.



3. In what direction does the output pulley wheel 'F' revolve ?

4. Why do pulley wheels B and C rotate in the same direction?

5. If one of the belts begins to 'slip', what would you consider the mostly likely reasons. Some keywords / phrases are listed below. They may help you answer this question.

DAMAGE FRICTION OIL/GREASE TENSION WEAR AND TEAR
