


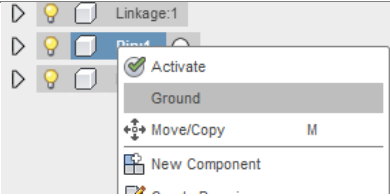

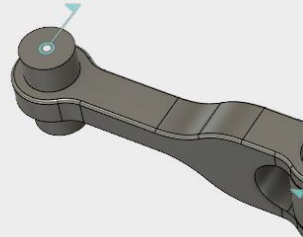
Lesson: Practice Exercise

Practice: Assemble components using joints.

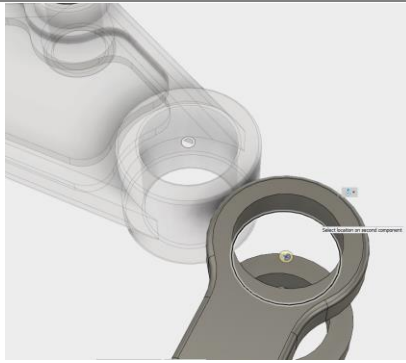
Learning Objectives:

- Ground a component.
- Create an as-built joint.
- Create a joint.

Step 1: Assemble components

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|---|--|
| <p>1. Upload and open the file L7-PE-01.f3d.</p> |  |
| <p>2. Right click on the component "Pin" in the browser and select Ground.</p> |  |
| <p>3. Select Assemble > As-built Joint. Select Linkage:1 and Rocker:1 as the components. Set the Type to Revolute and set the pivot point at their common location as shown.</p> |  |
| <p>4. Repeat the As-built joint between Linkage:1 and Pin:1.</p> |  |

5. Select Assemble > Joint and set the motion type to Revolute. When selecting components you must select them by their joint location. Select the upper edge of Rocker:1 at its large opening. For Component2 select the inner edge of the bore on Linkage(1):1 as shown.



Note: The components will move into place and animate the motion. The first selection will automatically move to the second selection.

6. Test the motion by grabbing a component in the canvas area and moving it with the mouse. Save the file.



Note: As a bonus select Pin:1 in the browser, Copy it and Paste New in the canvas area. Ground its location and create a joint between it and the second link to make a 4 bar linkage.