Exercise 33: Changes-8

Make changes to the assembly created in the previous lesson.

This exercises uses the following skills:

- Opening parts from the assembly
- Changing part dimensions
- Adding and deleting mates
- Adding components

Procedure

1. **Open the assembly Changes-8.**

2. **Open the bracket component.**
   From the FeatureManager or the screen, open the component `bracket<1>` for editing.

3. **Changes.**
   Double-click the base feature and change the dimensions that are shown as bold and underlined.
   Rebuild the part.

4. **Close and save.**
   Close the `bracket` part saving the changes that you have made. Respond **Yes** to rebuilding the assembly.

5. **Changes.**
   The changes made in the part also appear in the assembly.

6. **Turn the crank.**
   The crank should turn freely, turning the two yokes, the spider, and the pins with it.
7 Delete mate.
Expand the mate group and delete the mate Parallel2.

8 Turn the crank.
The crank should turn freely but it is no longer connected to the yokes and spider.

9 Insert a set screw.
Insert the existing component named set screw. Mate it to the small hole in the crank-shaft with a Concentric mate.
10 Hide component.
Hide the crank-shaft component. Add a Coincident mate between the flat faces of the set screw and the Yoke_Male.

Are there any other techniques you could use to facilitate adding the mates to the set screw? For example:

- Could you edit the Distance mate so that the crank-shaft could move up, out of the way, making it easier to add the coincident mate?
- Could you Suppress the distance mate so you could drag the crank-assy out of the way?
- Could you use Defer Mate so the concentric mate doesn’t pull the set screw into the hole, making it hard to add the coincident mate?

11 Show component.
Show the crank-shaft component.

12 Turn the crank.
The crank should turn freely and once again, the two yokes, the spider and the pins should rotate with it.

13 Save and close the assembly.