

Technique for Creating a broken view that does not move when model is modified

The view origin of a **Broken** view by default is the intersection of the diagonals defining the view boundary box. In the case of a **Broken** view created with vertical break lines, the leftmost portion drives the position of other view segments in all directions when moved, while those views to the right can be moved independent along the x-axis of the drawing sheet. When model geometry is modified and the views regenerated, all view portions shift to accommodate the new view origin of the broken view. This shifting is often undesired, therefore the following steps were developed to avoid the movement of broken view segments when model geometry is changed.

Procedure

The following view, shown in Figure 1, was created as a **Broken** view and the dimension of the full length of the model has been displayed using **View > Show and Erase > Show > Dimension > By Feature**.

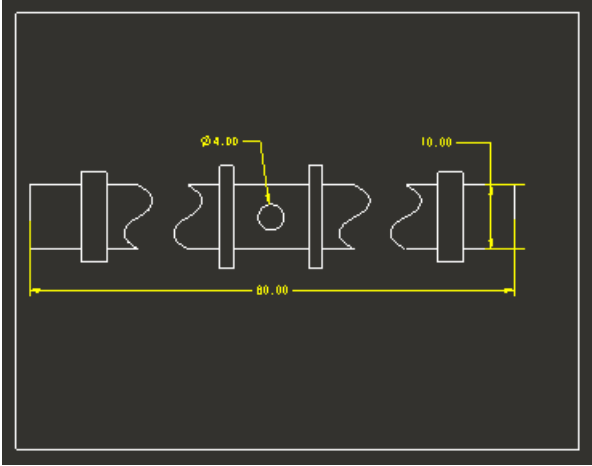
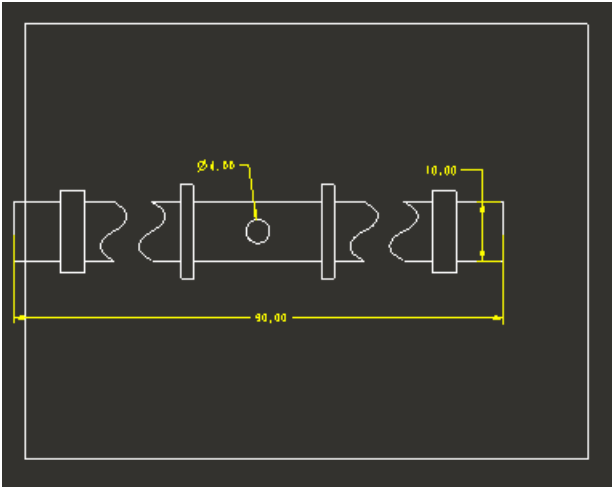
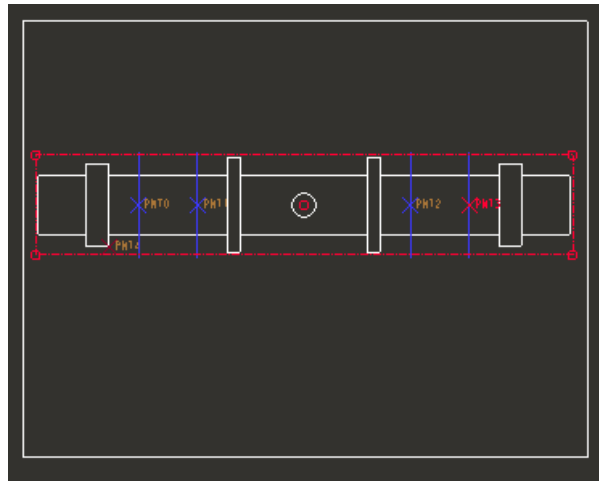


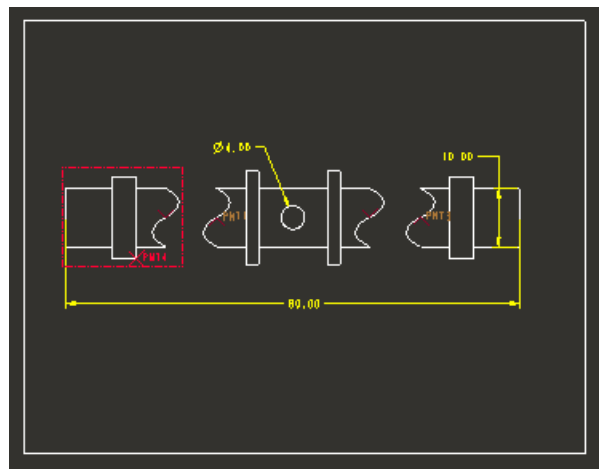
Figure 2 shows how the views shift when the full length of the model is increased and then regenerated.



To prevent the segments of the **Broken** view from shifting, the model should be modified to include datum points at the locations of the breaks. In the model, select **Insert > Model Datum > Point > Point** and create datum points by referencing geometry that will display in the segments of the **Broken** view. In Drawing mode, select **Insert > Drawing View > General** and then select CENTER POINT for the drawing view. With the Drawing View dialog box open, click the **Visible Area** category. The Visible area options display in the dialog box. Select **Broken View** from the View Visibility list. The options for defining the view area display. Click the **Add break** icon to add a break to the view. A row appears in the broken view table. Two lines define one break. The area between the lines will be removed. You can place both directions in the same session, including horizontal and vertical lines. The view should appear similar to Figure 3.



Next, change the view origin for the **Broken** view by selecting the view **Edit > Properties > Origin > On Item** and choose the datum point that is located at the leftmost portion of the **Broken** view > **OK**, shown in Figure 4. When selecting the point for the origin, one can choose a model edge, datum curve, datum point, coordinate system, or cosmetic feature entity.



Finally, when the model geometry is modified and regenerated, the view segments will not shift to new positions, as displayed in Figure 5.

