


AE 440A

Pro/E Tutorial: Creating a Datum Point

In joining two parts, it is convenient to add datum points. This tutorial will show you one method of adding a datum point to an existing part. In order to complete this tutorial, you will need the fuselage created with the Pro/E Tutorial 2.

1. Start Pro/E and set the working directory to where your fuselage created with Pro/E Tutorial 2 was saved.
2. Open your Pro/E Tutorial 2 fuselage.
3. Select the Datum Point tool . The Datum Point window will appear.
4. Click the “Top” datum plane. Three white squares should show up on your fuselage with the PNT0 label.
5. In the References area of the Datum Point window, click on the word “on” and switch it to “offset.”
6. Change the value of the offset by either changing it in the Datum Point window or by double clicking the value in the sketch area. If the offset is in the wrong direction, use a negative offset to switch the offset direction.
7. Click in the Offset references area in the Datum Point window and then click on the Right datum plane. Double click on its offset to change its value.
8. There should be one white square on your fuselage not associated with any plane. Click and drag the square until the Front datum plane is highlighted. A new offset will appear. Double click on the offset to change it value.
9. You now have a datum point that is referenced by the three datum planes of your fuselage.
10. Save your part.