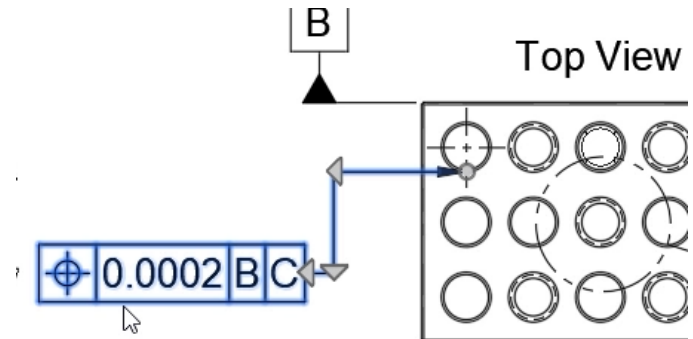


Identify GD & T symbols

In this module, you'll explore a few ways to add GD&T symbols to a drawing.

Learning objectives:

- Identify GD&T symbols.
- Plan coordinate system locations.



The completed exercise

1. Continue with the *123 Block Drawing* file from the previous module and navigate to the drawing's second sheet.

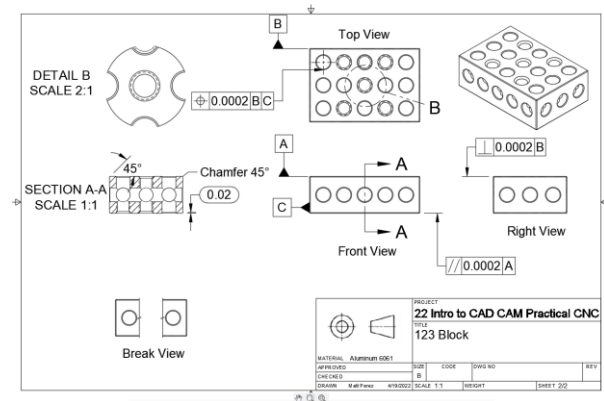


Figure 1. Continue with the file from the previous module

2. Most drawings for parts that will be manufactured will have GD & T symbols and datums to help identify critical areas of a design. This could include positional tolerances, perpendicular or parallel relationships, and much more. Notice that the drawing sheet's front view shows datum A and C. These two datums reference two of the part's edges. Datum B can be seen on the sheet's top view and references a different face.

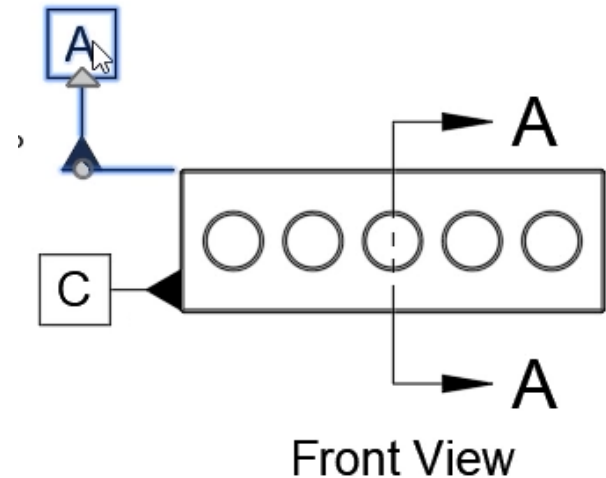


Figure 2. Inspect the part's Datum A and C

3. A control frame is displayed next to the sheet's top view. This control frame indicates that the hole's center line needs to be positioned accurately within 0.0002" of datum B and C. Notice that the sheet has two other control frames to describe the part's other important geometry.

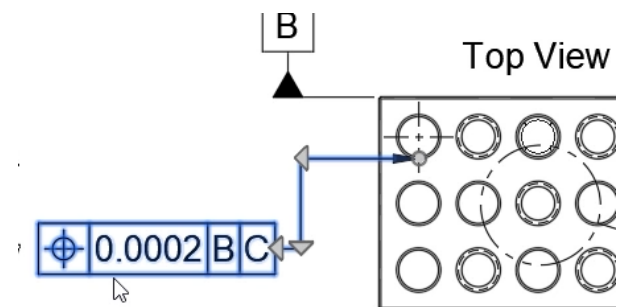


Figure 3. Notice the control frame

4. Control frames can be created by clicking Symbols> Feature Control Frame.

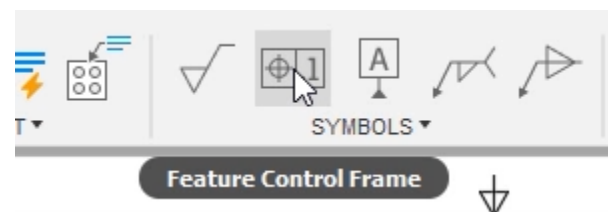


Figure 4. Open the Feature Control Frame tool

5. Click on the view to select the edge you want the control frame to reference, then click in an open area of the sheet to place the control frame.

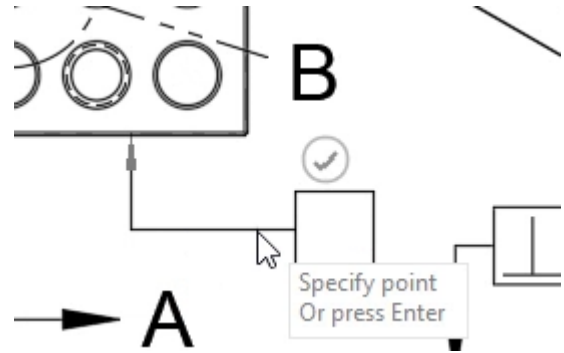


Figure 5. Place the control frame

6. Right-click and choose Continue to place the control frame.

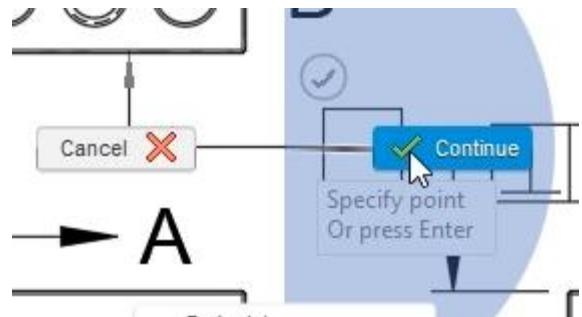


Figure 6. Place the control frame

7. The control frame's many characteristic options can be found inside the dialog's Characteristic menu. Continue to explore the many options in the dialog, then click Cancel after you finish.

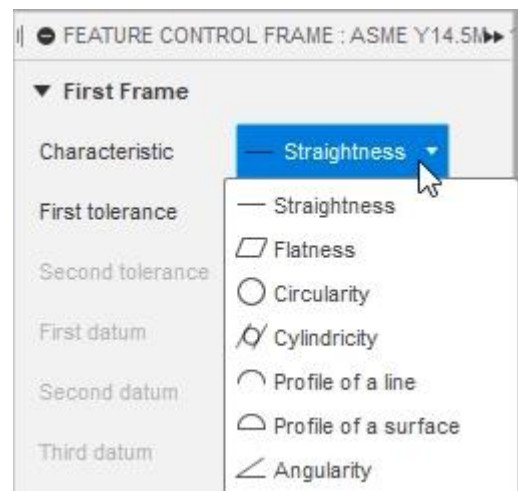


Figure 7. Explore the options in the Feature Control Frame dialog

8. Double-click one of the sheet's notes to edit it.

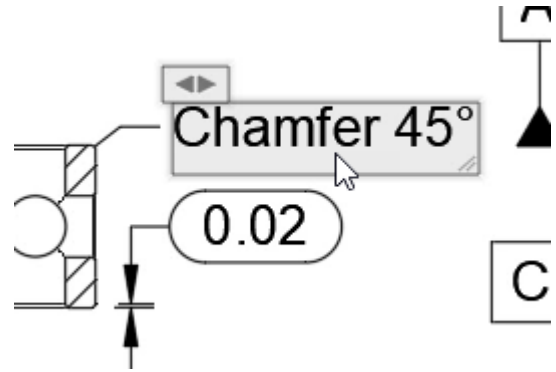


Figure 8. Edit one of the sheet's notes

9. Symbols can be added to dimensions or notes by using the Symbols menu inside the Text dialog. Close the dialog after you finish exploring the options. Continue to the next module.

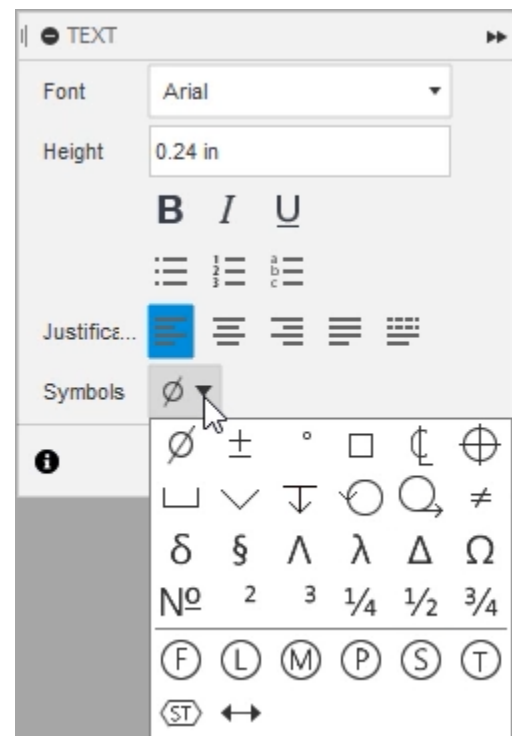


Figure 9. Explore the symbol options