

Created Touch Point from Features menu.
Enter Nominal values and changed vector to X+ direction

V

Features dialog box for Touch Point_C. The Nominal Definition section is highlighted with a red box, showing the following values:

Tolerance For:	Nominal	Actual
<input type="checkbox"/> X	0.0000	
<input type="checkbox"/> Y	0.0000	
<input type="checkbox"/> Z	-5.5000	
i	1.0000	
j	0.0000	
k	0.0000	

The Alignment section is set to Base Alignment. The diagram shows a 3D model of a part with a touch point at the bottom. A blue arrow points upwards from the touch point, and a red arrow points to the right. A yellow arrow points to the touch point itself.

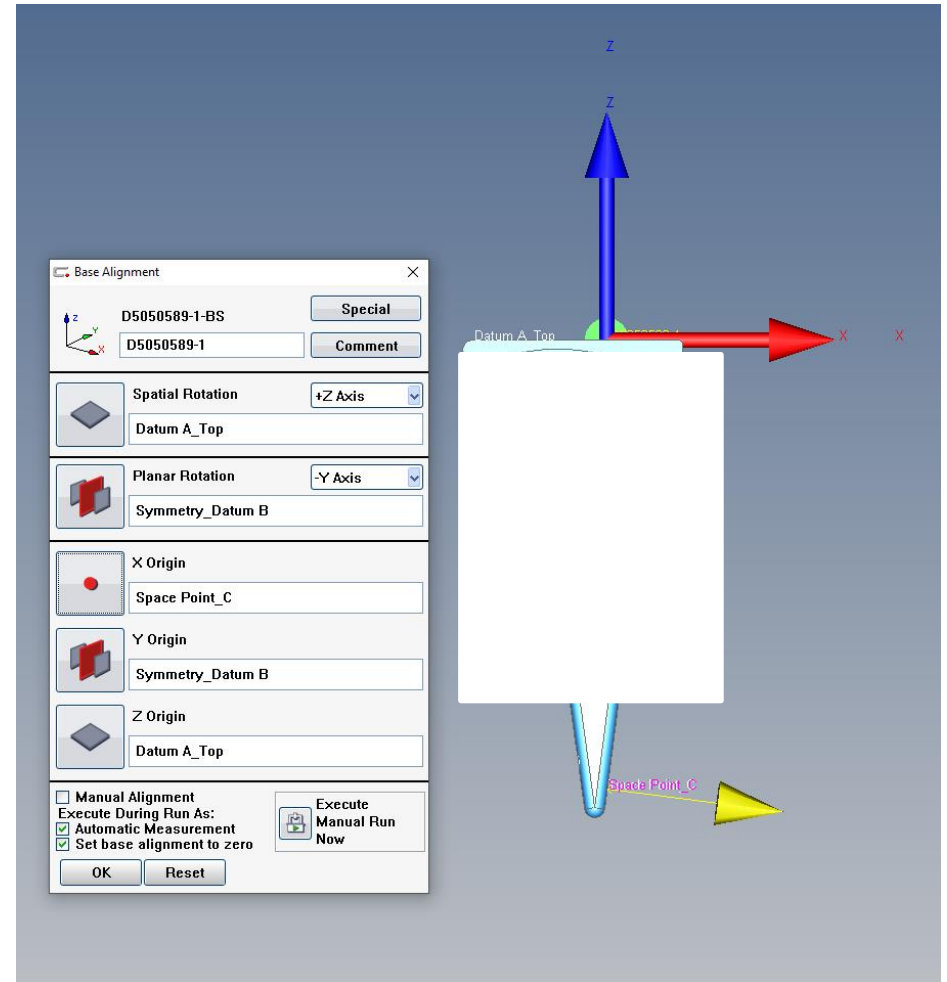
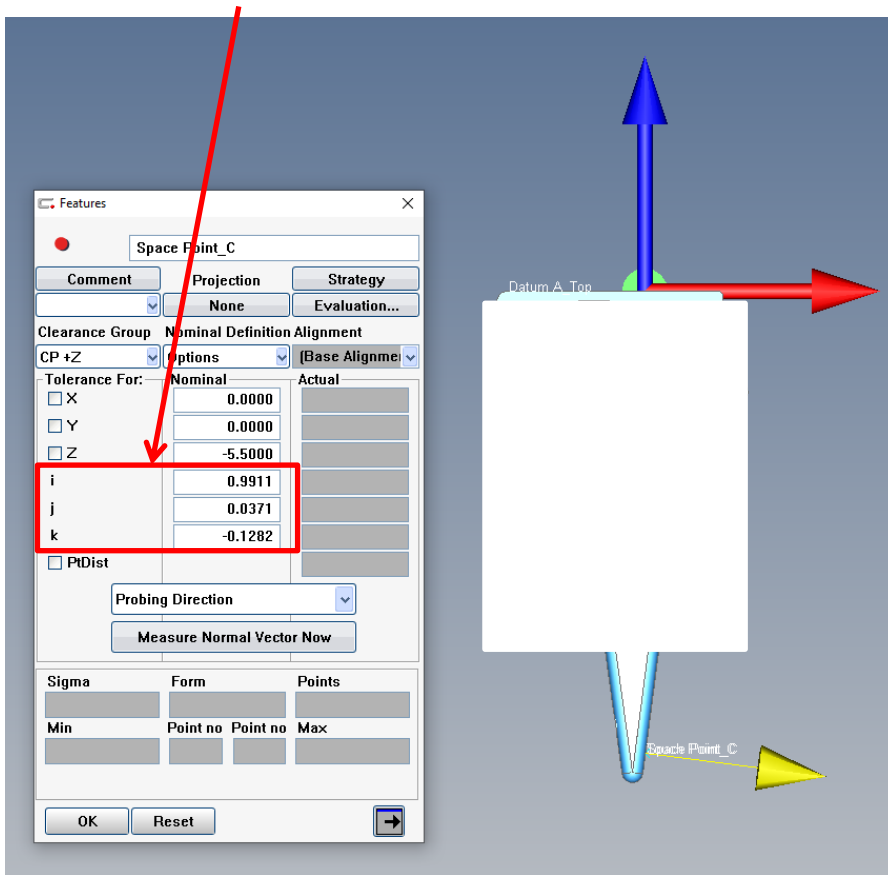
Base Alignment dialog box. The settings are as follows:

- Spatial Rotation: +Z Axis
- Planar Rotation: -Y Axis
- X Origin: Touch Point_C
- Y Origin: Symmetry_Datum B
- Z Origin: Datum A_Top

The Manual Alignment section is checked, and the Execute Manual Run Now button is visible. The diagram shows the same 3D model as the previous screenshot, but with a blue arrow pointing upwards and a red arrow pointing to the right, indicating the alignment of the touch point.

Created Space Point in Create Geometry window of
CAD > Creating Features > Creation.
Entered X0, Y0, Z-5.5 and selected Space Point

Note: Surface where Datum Target C is
located is not perpendicular to Datum B



Created Plane Point in Create Geometry window of
CAD > Creating Features > Creation.
Entered X0, Y0, Z-5.5 and selected Plane Point

Note: Surface where Datum Target C is
located is not perpendicular to Datum B

Note: X Origin shifts to location
parallel with planar surface that
plane point is located from.

The 'Features' dialog box for 'Plane Point_C' is shown. The 'Tolerance For' section is expanded, and the 'i', 'j', and 'k' values are highlighted with a red box. The 'i' value is 0.9911, 'j' is 0.0371, and 'k' is -0.1282. The 'Z' tolerance is set to -5.5000. The 'Probing Direction' is set to 'None'.

Tolerance For:	Nominal	Actual
X	0.0000	
Y	0.0000	
Z	-5.5000	
i	0.9911	
j	0.0371	
k	-0.1282	

The 'Base Alignment' dialog box for 'Datum A_Top' is shown. The 'X Origin' is set to 'Plane Point_C'. The 'Y Origin' is set to 'Symmetry_Datum B'. The 'Z Origin' is set to 'Datum A_Top'. The 'Execute During Run As:' section is checked for 'Automatic Measurement' and 'Set base alignment to zero'.

Origin	Value
X Origin	Plane Point_C
Y Origin	Symmetry_Datum B
Z Origin	Datum A_Top