Hole Wizard Holes at an ANGLE??? Here’s How!

Compound angle holes in SOLIDWORKS

They can be done, but typically it takes a lot of extra reference data like planes, axis, points, 3D Sketches, etc.

Using this technique removes all that and just allows you to place the hole and then change the angle of the hole as needed. Let’s begin.

Place the hole at the desired location.

Now we start the “Move Face” feature.
The first step is to select the Rotate option and then all the inner faces of the hole that we want to move. (Shown here sectioned to help with visualization)

Now we need to relocate the Triad to the center of the top circular opening of the hole. First, we right-click on the center of the Triad and select “Move to Selection...”.
Then we select the top edge of the hole and the Triad snaps to that location.

Finally, we set the angles needed for XYZ in the property manager at the bottom and click OK.