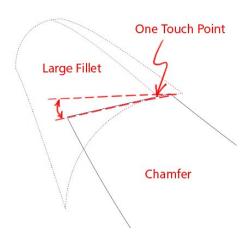
## A4.17: Two-into-One Chamfer Blend

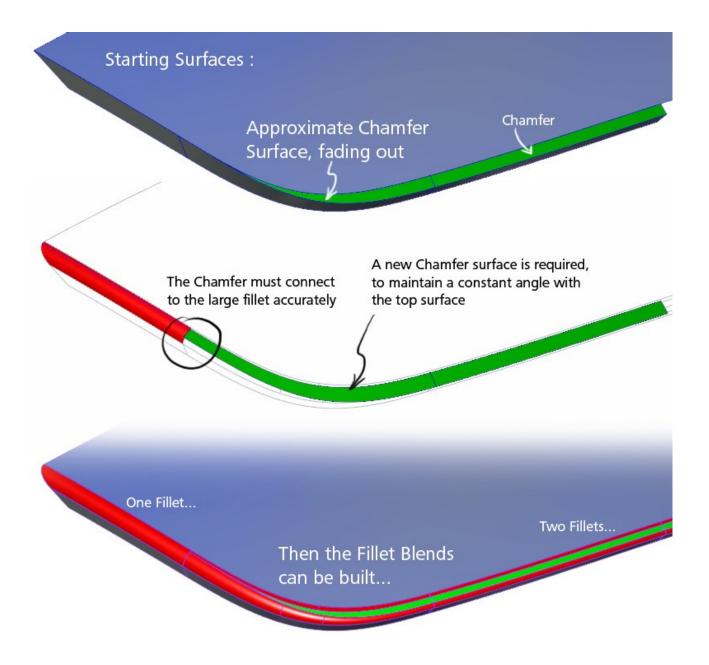
This component has a chamfered edge which fades out as it goes around the corner. Our task is to add fillets to the edges and achieve a smooth result.

The 'fading' chamfer surface however is three sided and doesn't touch the left-hand large fillet, so first it needs to be rebuilt, to two key criteria:

- 1. The chamfer angle to the top slab surface should be consistent.
- 2. The new chamfer surface must connect accurately to a tangent line on the large fillet surafce.

The technique used is to replicate the chamfer angle from the chamfer side to the radius side, using construction planes and the Transform Place tool.





## Viewing

The component is in its correct position in the vehicle. To view it in the same way as Barry does in the tutorial, you will need to use the View Azimuth/Elevation and View Twist tools, either from the View Cube menu or set as default in the General Preferences.

## Object Based Tumble (Azimuth/Elevation)

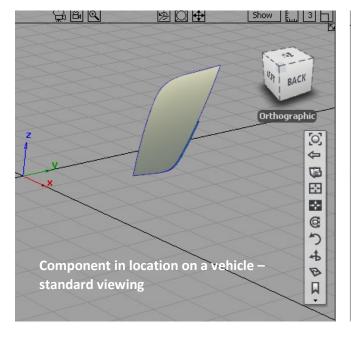
Lets you revolve, track, dolly, and twist the view using different mouse buttons. Press + Alt and drag the mouse button as follows:

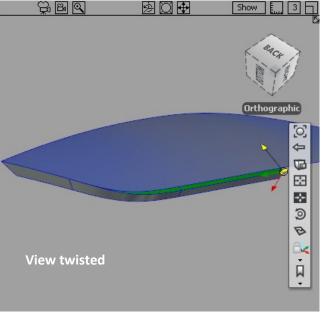
Simuth/Elevation: Dragging the mouse across the whole window (either horizontally or vertically) rotates the view 180 degrees.

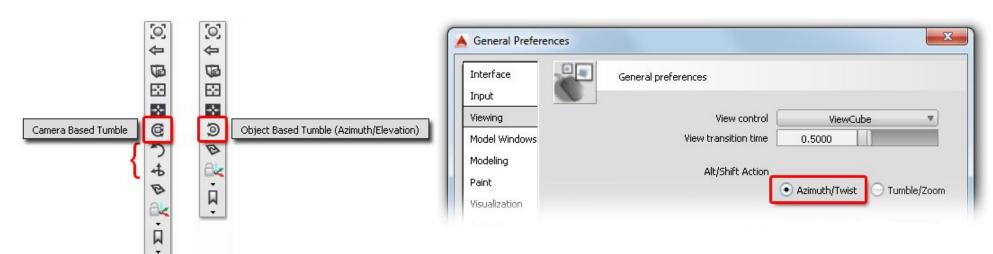
Track

vertical drag: Dolly

horizontal drag: Twist







## INDEX

Time	Торіс	Menu/Palette	Tool	Options
0.00	Discussing the need for a repeatable, thought-out process.			
0.46	Showing the final blend surfaces			
1.05	Discussing a 'wrong' way to approach the blend – number 1			
2.26	Discussing a 'wrong' way to approach the blend – number 2			
3.28	Sketching out a patch layout on the screen			
	Creating the Chamfer Blend Surface			
6.43	Projecting the edge of the fillet onto the top surface	Surface Edit > Create CoS	Project	Normal
7.01	Explaining the use of construction planes to copy the angle			
7.16	Duplicating the Chamfer edge to a separate curve (to be moved)	Curve Edit > Create	<b>Duplicate Curve</b>	
7.20	Creating 3-point construction planes			
7.55	Using Transform Place to move the curve from one side to the other	Transform	Place	
8.17	Finding the touch point where the chamfer blend needs to meet the fillet			
8.36	Creating a vector and applying surface evaluation (draft Angle)	Construction	Vector	
9.22	Creating a draft surface to build the control surface on the fillet side	Surfaces	Multi-Surface Draft	
10.15	Intersecting and Trimming the Chamfer			
11.24	Two control surfaces are now built for the chamfer blend			
11.42	Create a Freeform Blend for the Chamfer blend surface	Surfaces > Multi-Surface Blend	Freeform Blend	
12.05	Matching the FF Blend hull layout to the primary surfaces	Object Edit > Attach	Detach	
13.44	Manually adjusting the CV's in the FF Blend	Control Panel > Xform CV > Move	Slide	
15.22	Create the Fillet transitions			
15.40	Using Blend Curve for the transition edges	Curves > Blend Curve Toolbox	Create Blend Curve	
16.38	Matching Blend Curve CV layout to Chamfer Blend	Control Panel > Xform CV > Move	Slide	
18.36	Project the Tangent Lines onto the Chamfer blend surface	Surface Edit > Create CoS	Project	Normal

18.54	Using Symmetric Fillet to build the fillet transition surfaces	Surfaces > Multi-Surface Fillet	Symmetric Fillet	
20.30	Checking continuity	Evaluate > Continuity	Surface Continuity	
21.39	Using Align to correct continuity errors	Object Edit > Align	Align	