# AUTODESK INVENTOR Trial Projects

CAD Interoperability

Work with non-native design data

Autodesk A360	Look in: 🅌 Ember - Base	• G 🛊 🖻 🛄 •	
Workgroup	Name	Date modified	Туре
O Libraries	Vendor	12/14/2016 4:49 PM	File folder
Content Center Files	2 Templates	12/15/2016 12:04	File folder
	190592A011.ipt	12/14/2016 4:49 PM	Autodesk Inventor
	92095A187.ipt	12/14/2016 4:49 PM	Autodesk Inventor
	194500A222.jpt	12/14/2016 4:49 PM	Autodesk Inventor
	199397A349.jpt	12/14/2016 4:49 PM	Autodesk Inventor
	Base Assembly - Import Projector.iam	12/14/2016 4:49 PM	Autodesk Inventor
	Base Moulding.ipt	12/14/2016 4:49 PM	Autodesk Inventor
	Board (1).ipt	12/14/2016 4:49 PM	Autodesk Inventor
	🔂 Board.ipt	12/14/2016 4:49 PM	Autodesk Inventor
	Brass Insert_M3.ipt	12/14/2016 4:49 PM	Autodesk Inventor
. 1.	Brass Insert_M4.ipt	12/14/2016 4:49 PM	Autodesk Inventor
10000		********	
	File name: Base Assembly - Import Projector Jam		•
	Files of type: Autodesk Inventor Files ("Jam," dwg."	idw;*ipt;*ipn;*ide)	•
	Project Pile: Base Assembly - Import Projector.jpj		• Projects
Quick Launch			

In Inventor, click the 'Projects' icon in the ribbon. Navigate to where you saved the project files and select *Base Assembly - Import* **Projector.ipj.** Then open *Base Assembly - Import Projector.iam*.

Autodesk A360	Look in: Vendor			
Uibraries	Name Sliding Projector Assembly v11 Updates Brass Insert_M3.stl	Date modified 12/5/2016 1:47 PM 12/2/2016 12:26 PM 11/30/2016 12:38	Type File folder File folder 3D Object	Size
Preview not available				

Navigate to the Vendor folder located in the downloaded files, select the B**rass Inset\_M3.stl** file, and then click 'Options'.



page: 2

With the Base Assembly - Import Projector assembly open, begin by selecting 'Place Imported CAD Files' from the 'Component' panel.

XY Plane

Save Options	
Save Components during Load	
Select Save Locations	~
Component Destination Folder	
D:\Autodesk Content\Autodesk 2017 P	oject\Project Files\Ember - Base\_Vendor\Slidii
Translation Report	
	-
	Save to Disk
Units	
Import Units	Bounding Box
centimeter	×: 0.538
Template Units	Y: 0.548121
inch	Z: 0.55
centimeter	
maimeter	
micron	
RGB	~

Ensure centimeter is selected for the 'Import Units' and click 'OK'.





Click 'Open' to begin inserting instances of the part and place two instances of the fitting into the assembly. (Note the .STL file imports as a 3D mesh.)



Activate the 'Insert Constraint' from the dialog, select the top edge on the fitting, and then select the inner edge of the boss feature to place the part.



6.

8.

Select "Constrain' from the marking menu to begin placing the parts. (Note that even though the part is made of mesh geometry, Inventor still recognizes hole centers and cylindrical faces.)



Apply the contstraint, and repeat the process you used in the prior step to place the second fitting onto the other boss. Apply the constraint, and then exit the command. Save the assembly to continue.





Select Place 'Imported CAD Files' from the Component panel to begin inserting another part.

options Select		
Import Type		
🖲 🦠 Reference Model	0	
🔿 🚹 Convert Model		
Object Filters	}	
Solids	Wires	
Surfaces	Work Features	
Meshes	Points	

11.

Ensure the 'Reference Model' option is selected so that Autodesk AnyCAD technology can be utilized if changes are made to the model later.

Workgroup Search Paths	Look in: 🗼	Sliding Projector Assembly v11	- 🗿 🖉 🖻 🖽 -		
Workgroup	Name	^	Date modified	Туре	-
Libraries	PRT0007	7_1.sldprt	12/14/2016 4:49 PM	SLDPRT File	
Content Center Files	PRT0008	8_1.sldprt	12/14/2016 4:49 PM	SLDPRT File	
	PRT0020	5_1.sldprt	12/14/2016 4:49 PM	SLDPRT File	
	PRT0023	7_1.sldprt	12/14/2016 4:49 PM	SLDPRT File	
	PRT0028	B_1.sldprt	12/14/2016 4:49 PM	SLDPRT File	
	PRT0029	9_1.sldprt	12/14/2016 4:49 PM	SLDPRT File	
	PRT0030	0_1.sldprt	12/14/2016 4:49 PM	SLDPRT File	
	RAPC7X	(2X_6_1.sldprt	12/14/2016 4:49 PM	SLDPRT File	
	Sliding	Projector Assembly v11.SLDASM	12/14/2016 4:49 PM	SLDASM File	
	Standof	f_1.sldprt	12/14/2016 4:49 PM	SLDPRT File	
	Iop Cat	binet_1.sldprt	12/14/2016 4:49 PM	SLDPRT File	
	Window	v Gasket_1.sldprt	12/14/2016 4:49 PM	SLDPRT File	-
	•	m			P
	File name:	Sliding Projector Assembly v11.SLDAS	6M	*	
	Files of type:	All Models		•	
	Project File:	Base Assembly - Import Projector.ipj		· Projects	

10.

12.

Navigate to the Vendor | Sliding Projector Assembly folder, select the *Sliding Projector Assembly v11.SLDASM* file, and click 'Open'.

Import: Sliding Projector As	sembly v11.SLDASM	>
Options Select		
	🗹 🔌 Link Visibility	
Load Mole	Status	
Ga A Sliding Projector Asser	mbly v11	
92095A 198_1:1		
	:1	
	:2	
	:3	

Access the 'Select' tab and click 'Load Model' to preview and select the geometry you want to import into the assembly.



13.



Uncheck the two projector PCB boards as shown to exclude them from the import. Click 'OK' to place the part into the assembly.

Jransparent Alt+T Contact Set Suppress Properties... How To... How To... Measure ☐ Constraint Undo ← Constraint Find in Browser ← Visibility ♥

Find the *Base Molding:1* part in the browser and double-click it to edit it.



14.

Select 'Place Grounded at Origin' from the marking menu to correctly locate the part, and then cancel the insert part command.



Double-click 'Sketch7' under the *Mounting Boss* feature to edit it.



17.



Drag the unconstrained circle away from the boss temporarily.



Activate 'Project Geometry', and then select the tab face as shown.



Sketch a line between the two midpoints on the slot outline.



Select 'OK' to exit the line command, and then create a c oincident relation between the circle's center and the midpoint of the line you just sketched.



раде: б



Click 'Finish Sketch' to exit the sketch, and then 'Return' to the assembly.

23.



Navigate to the Vendor | Sliding Projector Assembly v11 folder and paste the copied files, choosing to replace existing files.

Organize 🔻 📋 Open Share wi	ith ▼ New folder			855
🔆 Favorites	^ Name	Date modified	Туре	Size
🧮 Desktop	Bottom Cabinet_1.sldprt	12/14/2016 4:49 PM	SLDPRT File	2,03
😌 Dropbox (ASM)	Sliding Projector Assembly v11.SLDAS	A 12/14/2016 4:49 PM	SLDASM File	2,24
Ecent Places				
🔤 Box Sync				
Creative Cloud Files				
Downloads				
A360 Drive				
<ul> <li>A360 Drive</li> <li>Libraries</li> </ul>				
A360 Drive				

22.

In your file explorer, navigate to Project Files | Ember - Base | Vendor | Updates, and copy the two files to your clipboard.



Select 'Update' on the menu bar to apply the updated geometry.



page: /



Note how the boss in the projector assembly automatically updates to match the change to the imported geometry. Save the assembly to finish. page: 8





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