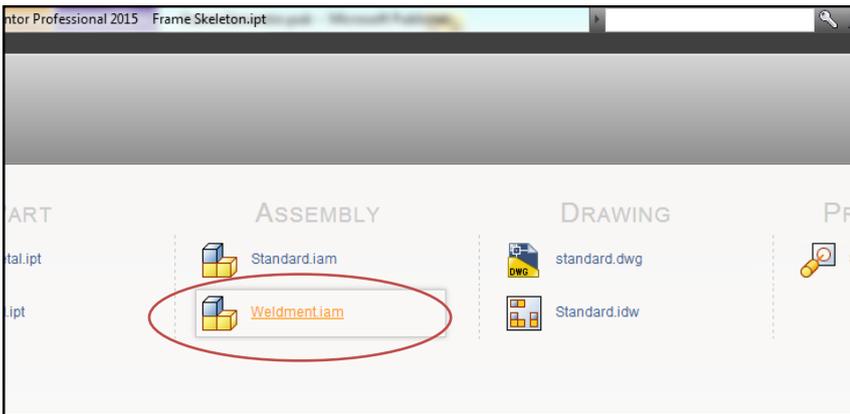


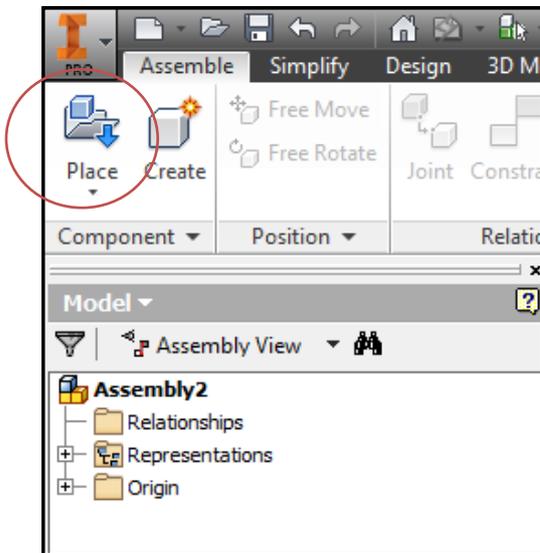
# Assembly Exercise. Frame Generator

Create an frame assembly with weldments.



**Step # 1.** From the New File dialog box , select the *Weldment.iam* template.

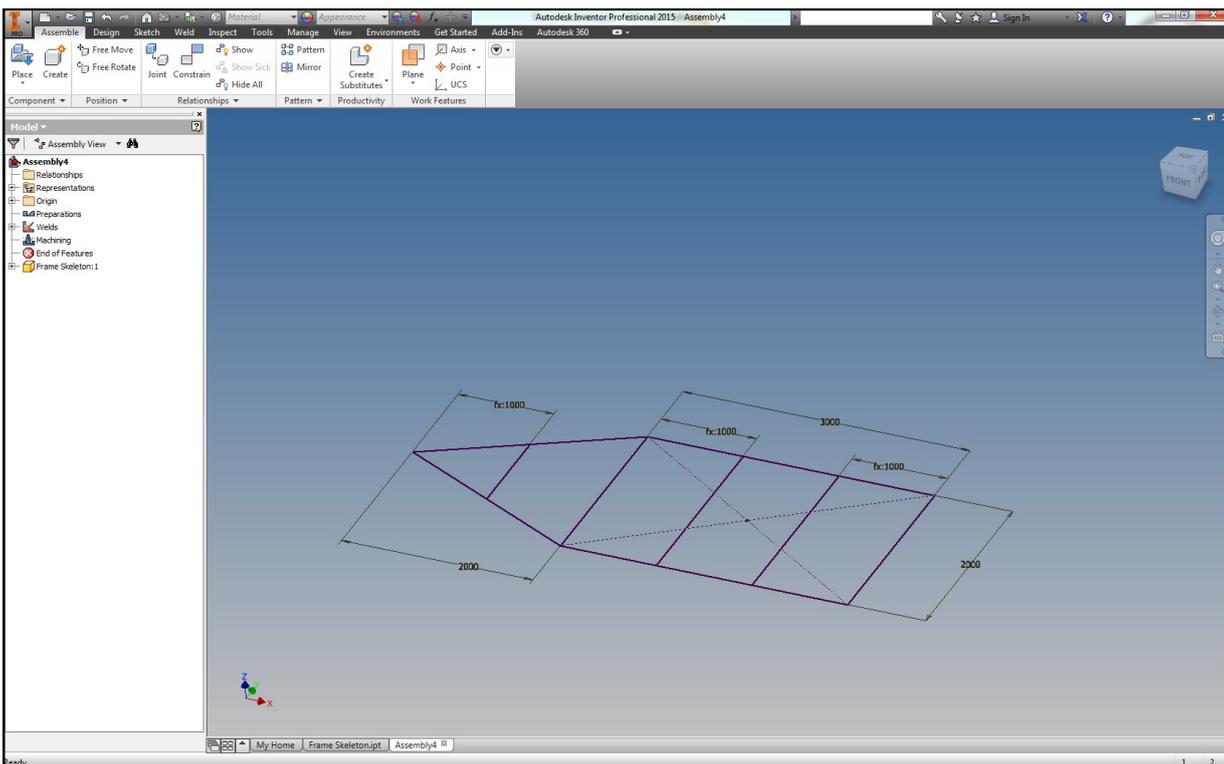
**FIG 1.0**



**Step # 2.** On the Assemble tab select the *Place Command*. In the place component dialog select *Frame Skeleton.ipt* and place one instance of the component in the assembly.

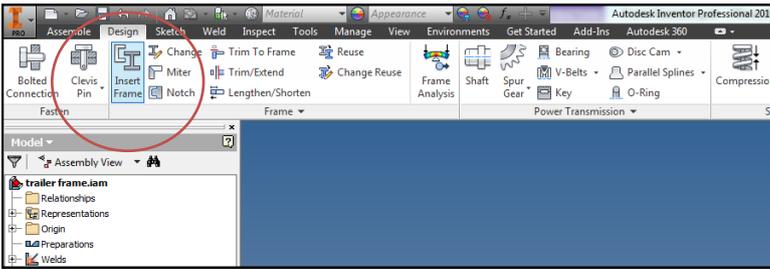
**Step # 3.** Save the Assemble as *Trailer Frame.iam*

**FIG 2.0**



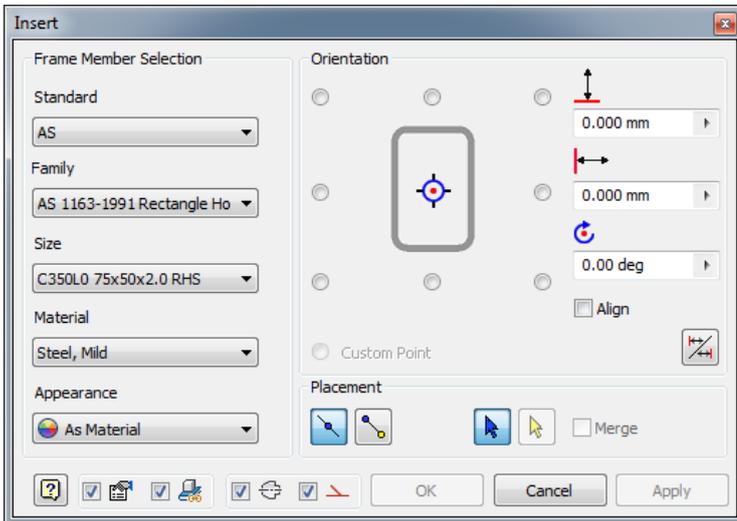
**FIG 3.0**

**Step # 4.** On the *Design Tab* , select the *Insert Frame* command as shown in Fig 4.0



**FIG 4.0**

**Step # 5.** In the Insert Dialog Box set the *Frame Member Selection* to values as shown in Fig 5.0

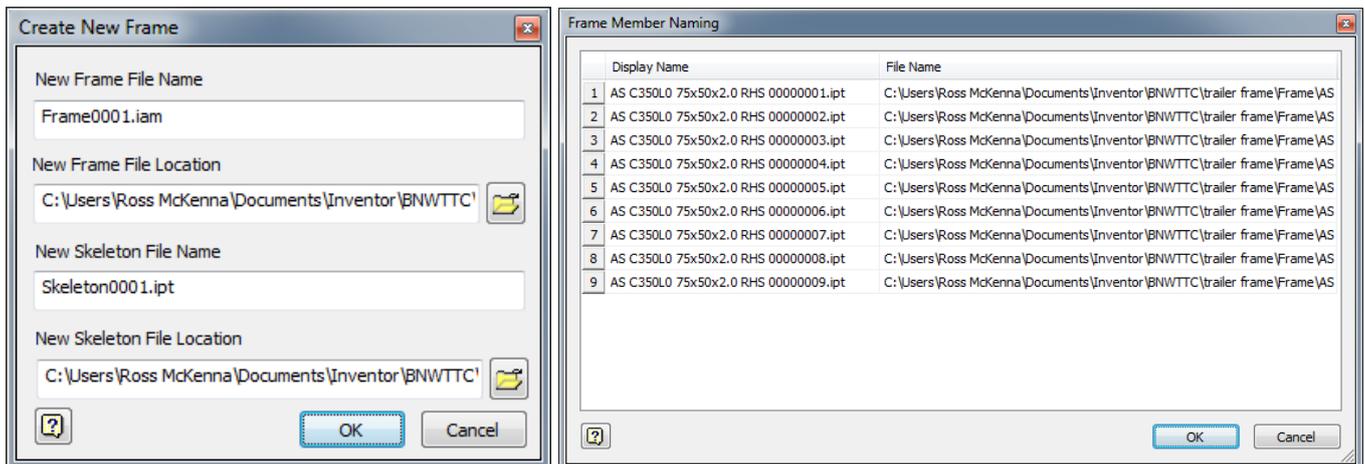


**FIG 5.0**

**Step # 6.** Select all the lines in the Frame Skeleton sketch. OK the dialog box.

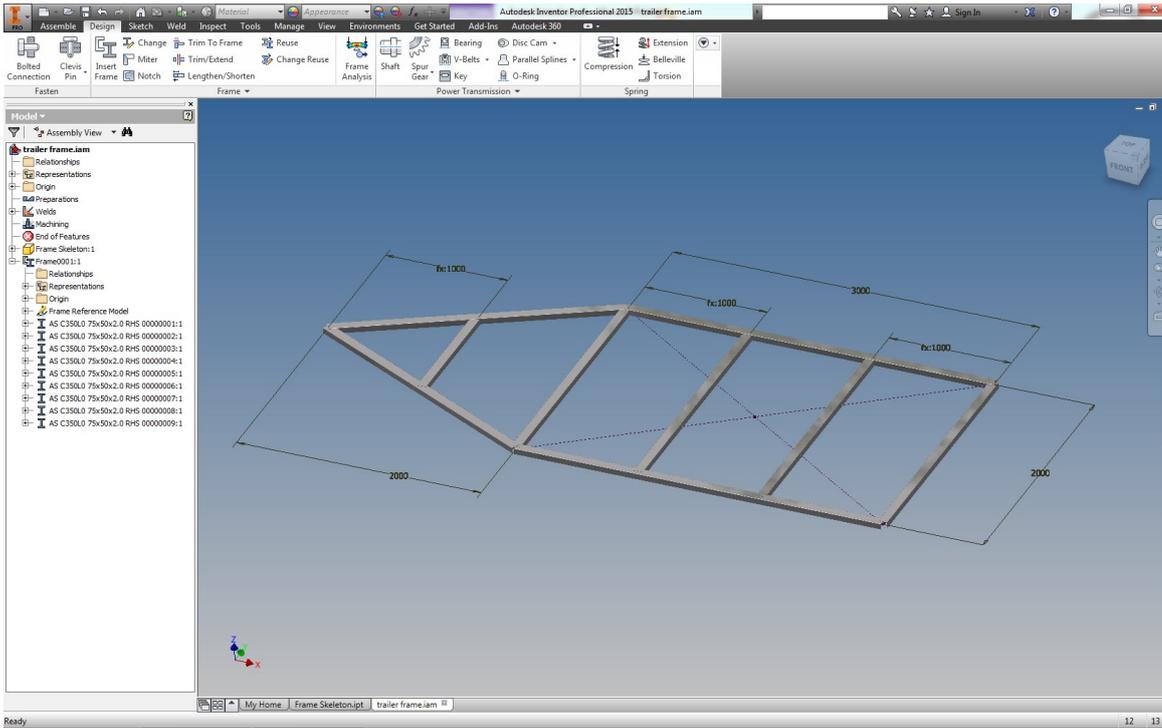
OK both the *Create Frame Name* and *Frame Member Naming* Dialog boxes.

This will automatically create and name all frame members as individual Part files.



**FIG 6.0**

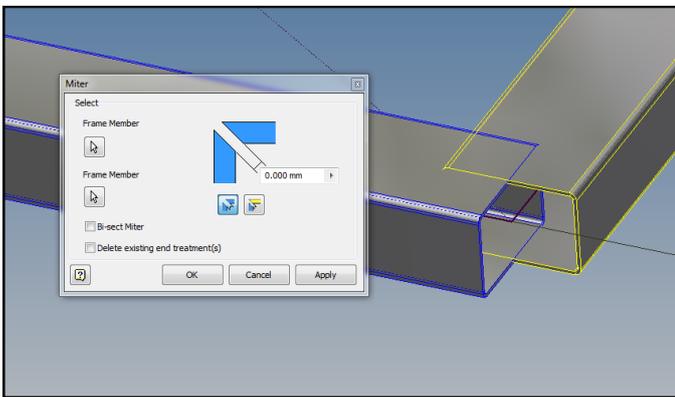
**Step # 7.** A frame with all members applied, should appear as shown in Fig 8.0



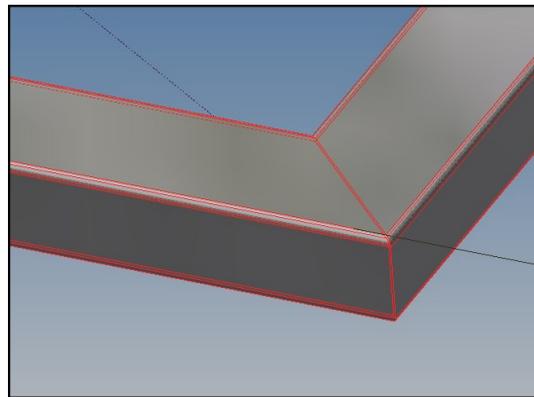
**FIG 8.0**

**Step # 8.** Apply End Treatments.

Apply the Miter End treatments to the right hand end corners, as shown in Fig 9.0 and Fig 9.0a

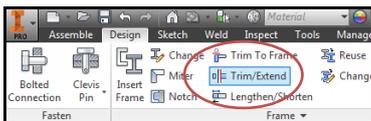


**FIG 9.0**

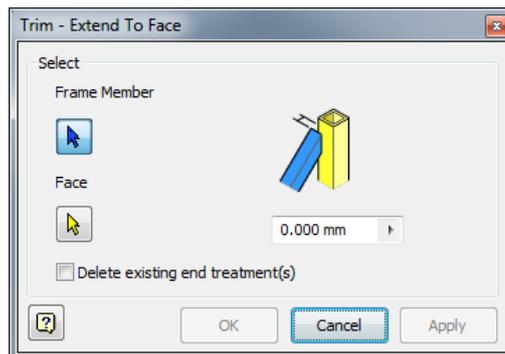


**FIG 9.0a**

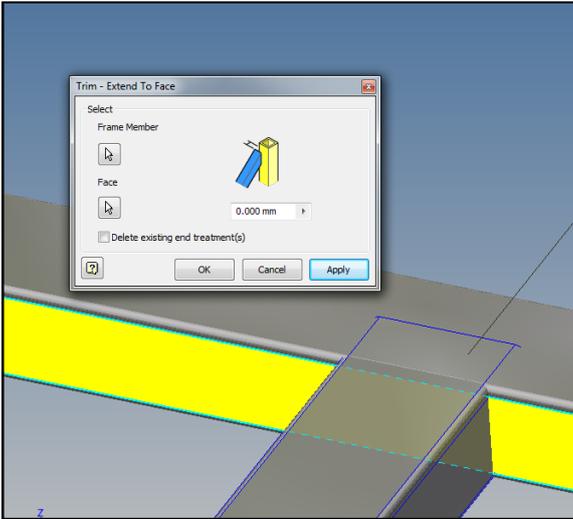
**Step # 9.** Treat the Cross members with the *Extend to Face* command



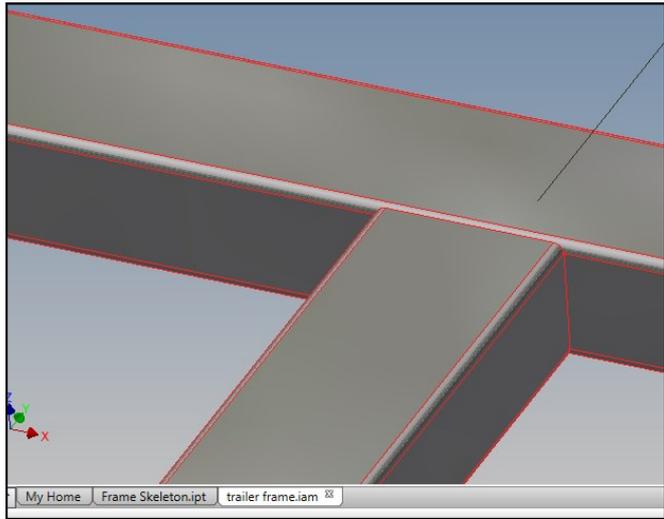
**FIG 10.0**



**Step # 10.** Apply the Extend to Face End treatments to three cross members, as shown in Fig 11.0 and Fig 11.0a



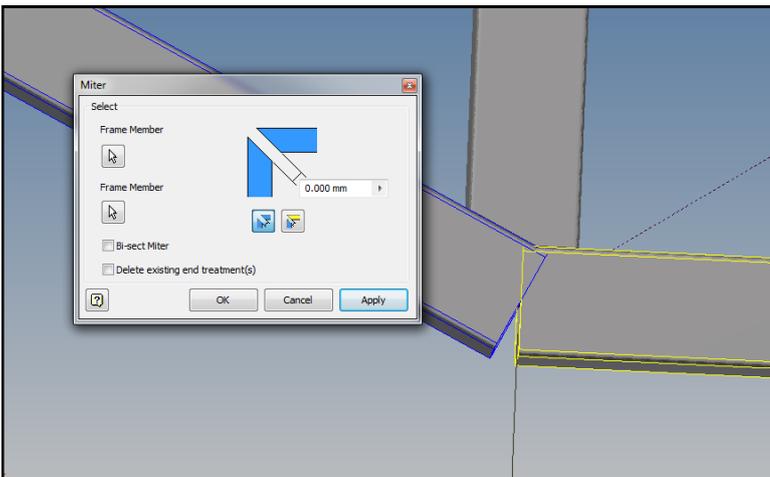
**FIG 11.0**



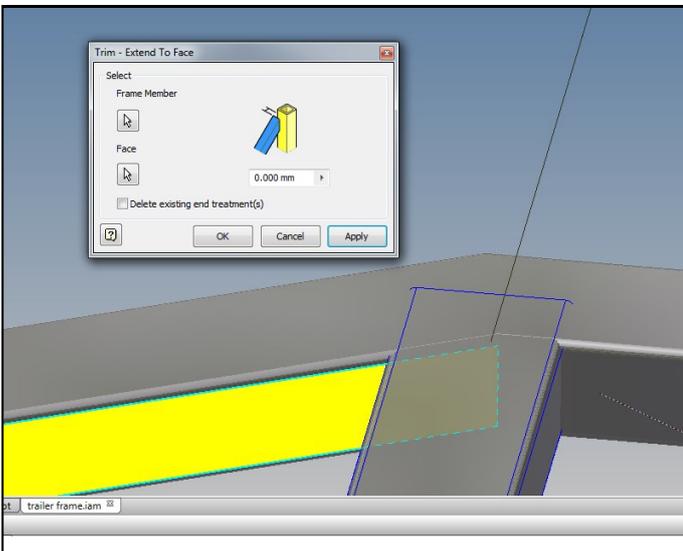
**FIG 11.0a**

**Step # 11.** Finish the tow bar in a two step operation. First *Miter* the outer members as show in Fig 12.0

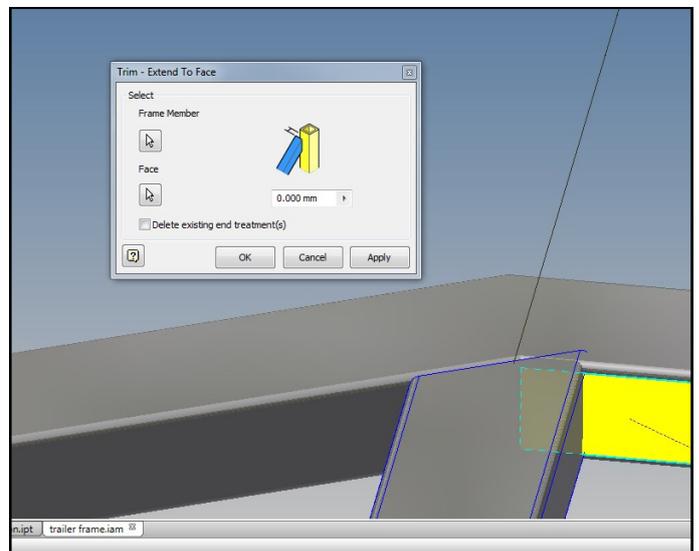
The use the Extend to Face command as shown if Fig 13.0 and Fig 13.0a



**FIG 12.0**



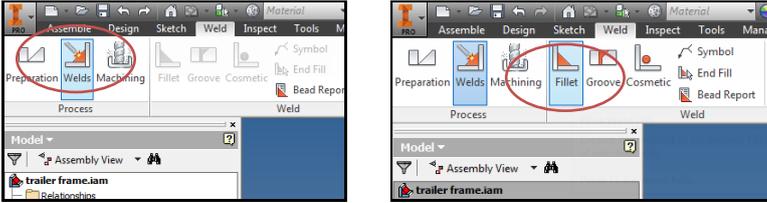
**FIG 13.0**



**FIG 13.0a**

**Step # 12. Apply Welds.**

On the *Weld Tab* on *Process Panel*, Select *Welds* and then on the *Weld Panel* select *Fillet*. As shown in Fig 14.0

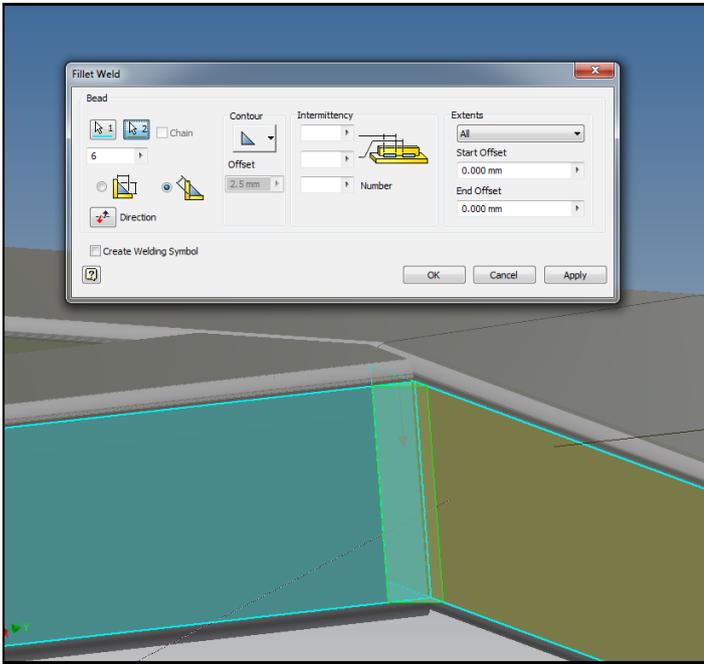


**FIG 14.0**

**Step # 12. Apply Welds.**

Select two adjacent faces using values as shown in Fig 15.0

Ok the dialog box.



**FIG 15.0**

A finished weld should result.

As shown in Fig 16.0

**FIG 16.0**

