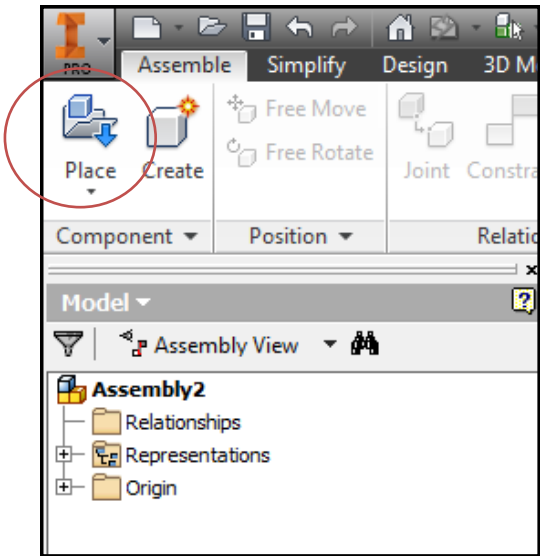


Assembly Exercise. Frame Generator

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

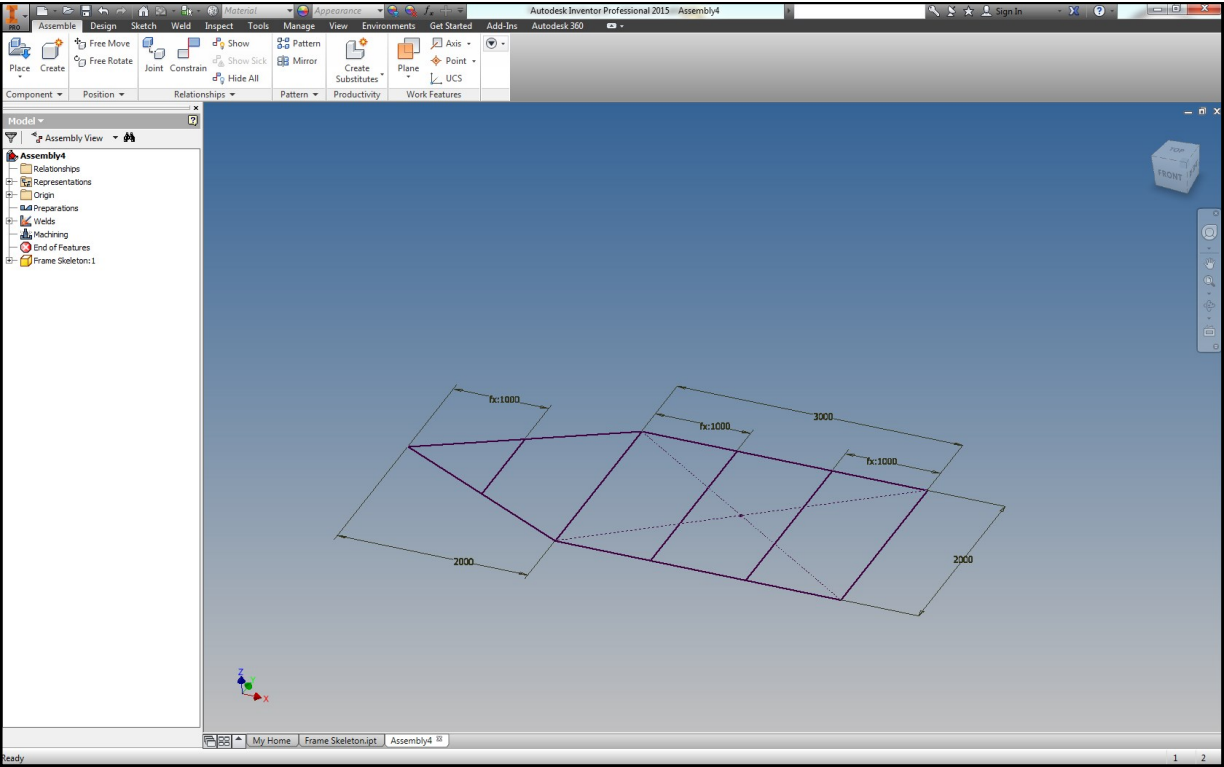


FIG 3.0

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

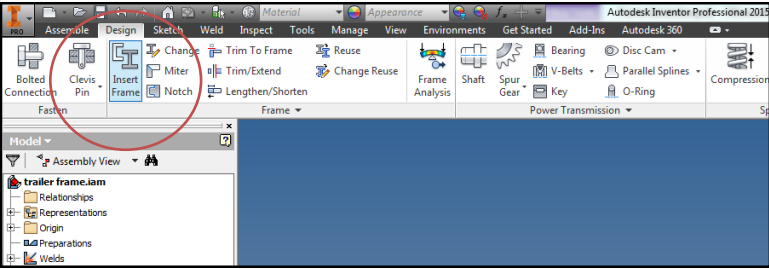


FIG 4.0

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

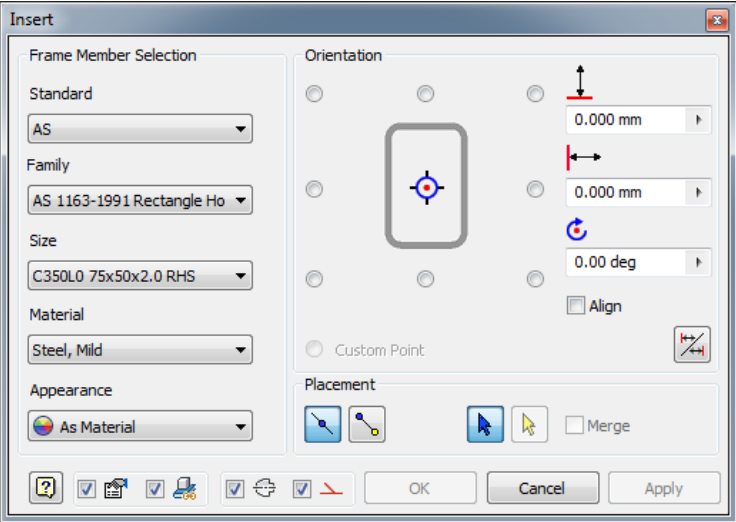


FIG 5.0

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.

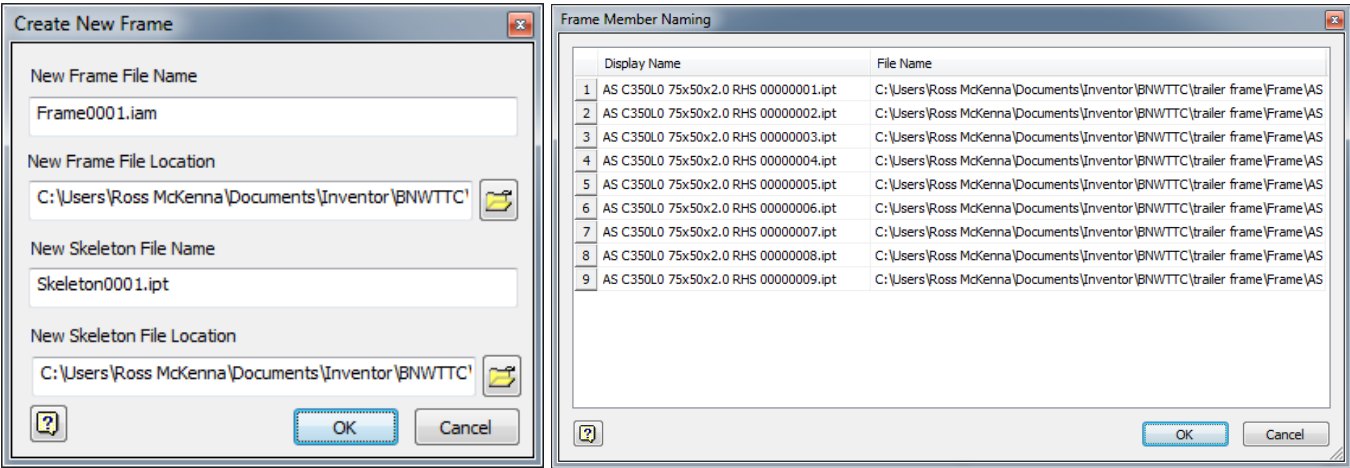


FIG 6.0

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

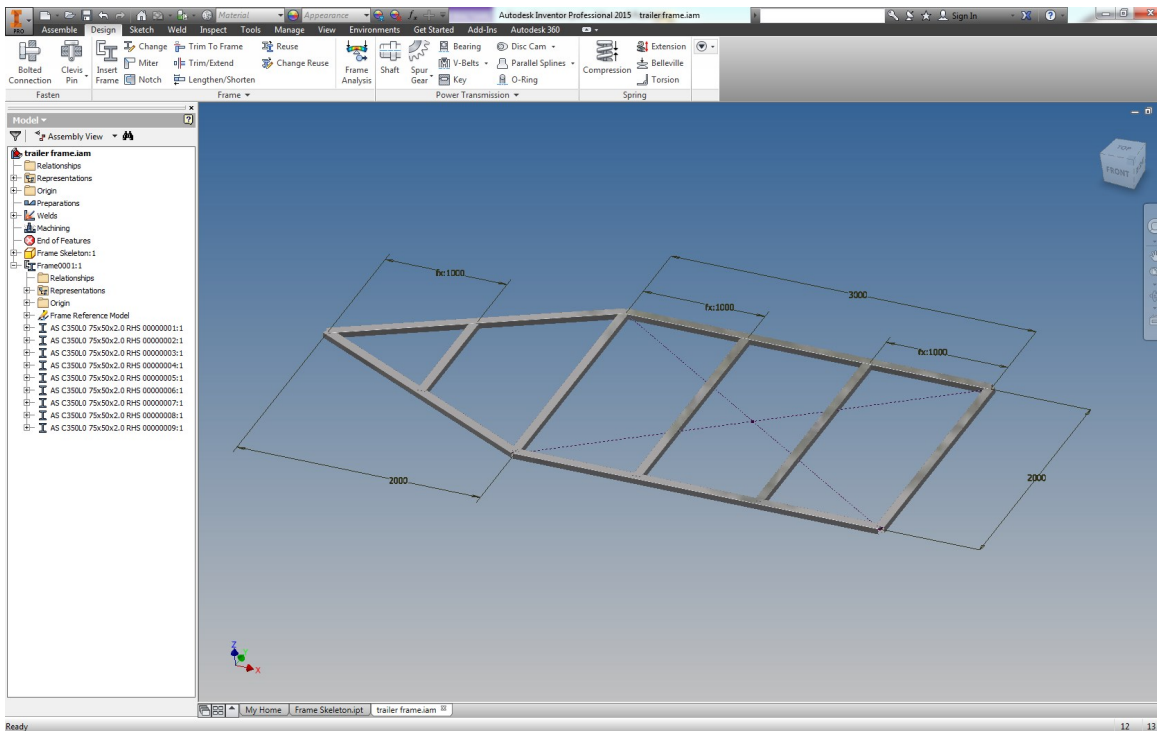


FIG 8.0

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

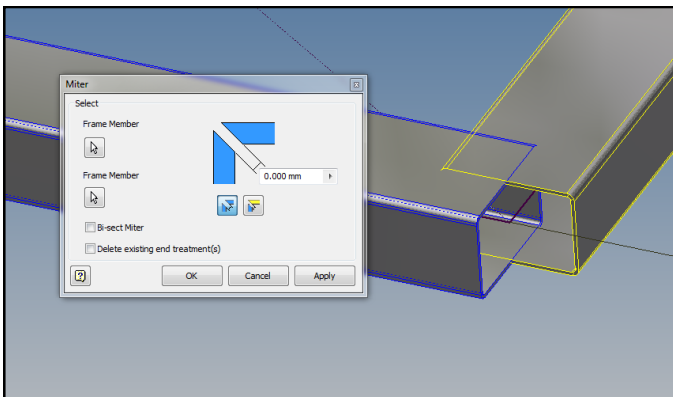
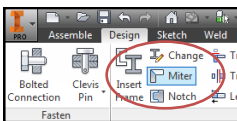


FIG 9.0

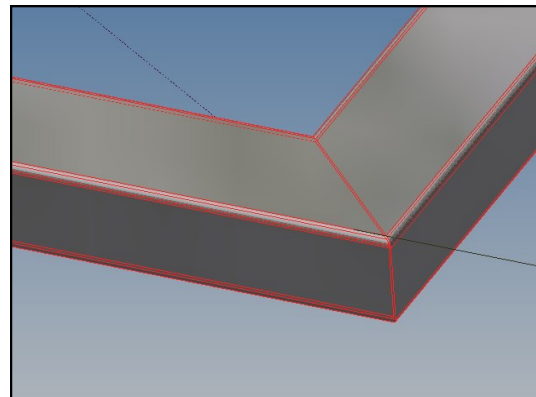


FIG 9.0a

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

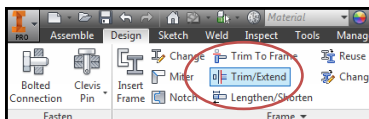
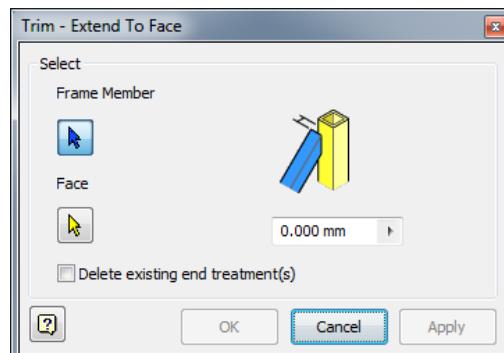


FIG 10.0



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

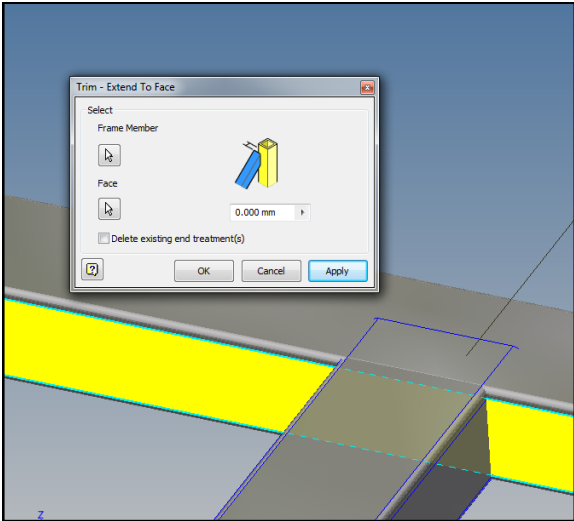


FIG 11.0

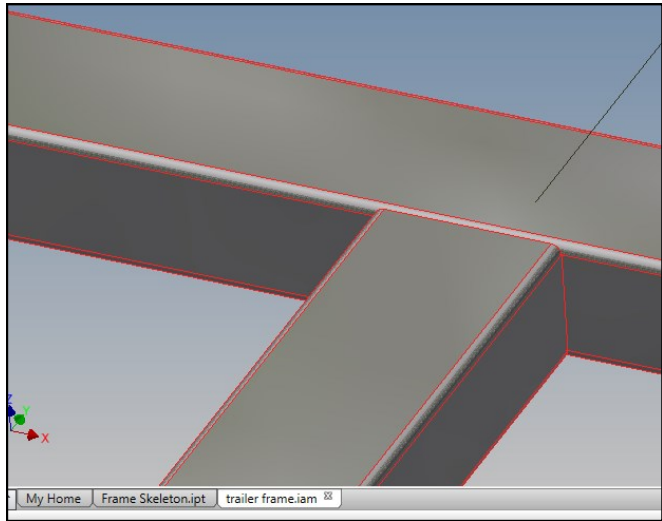


FIG 11.0a

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

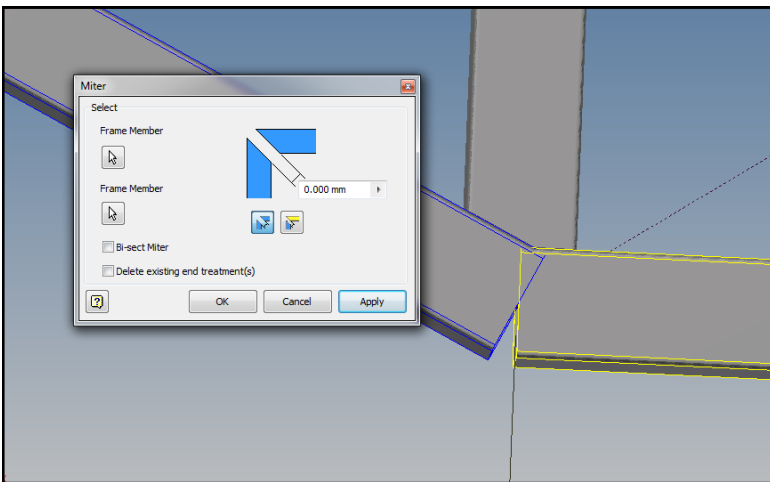


FIG 12.0

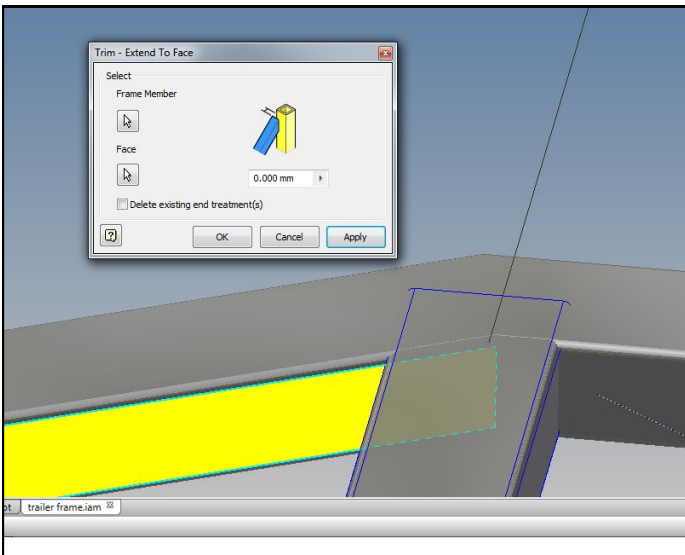


FIG 13.0

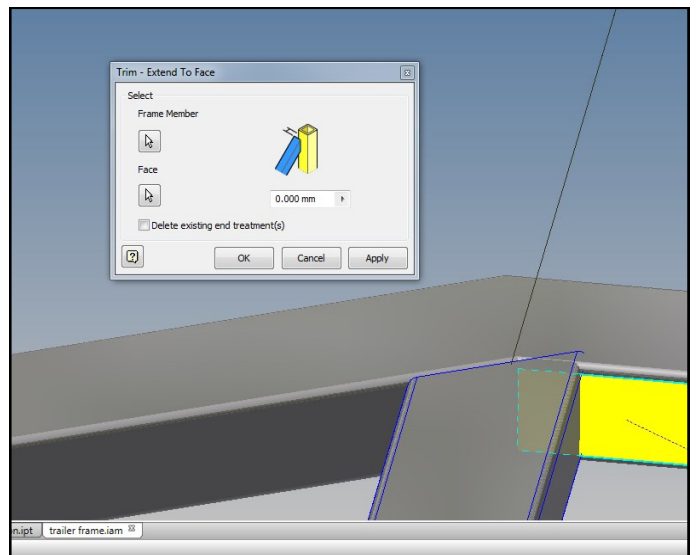


FIG 13.0a

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

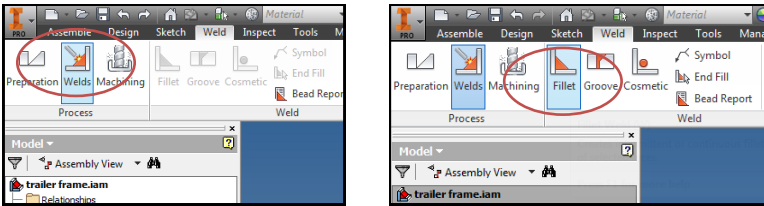


FIG 14.0

Step # 12. Apply Welds.

Select two adjacent faces using values as shown in Fig 15.0

Ok the dialog box.

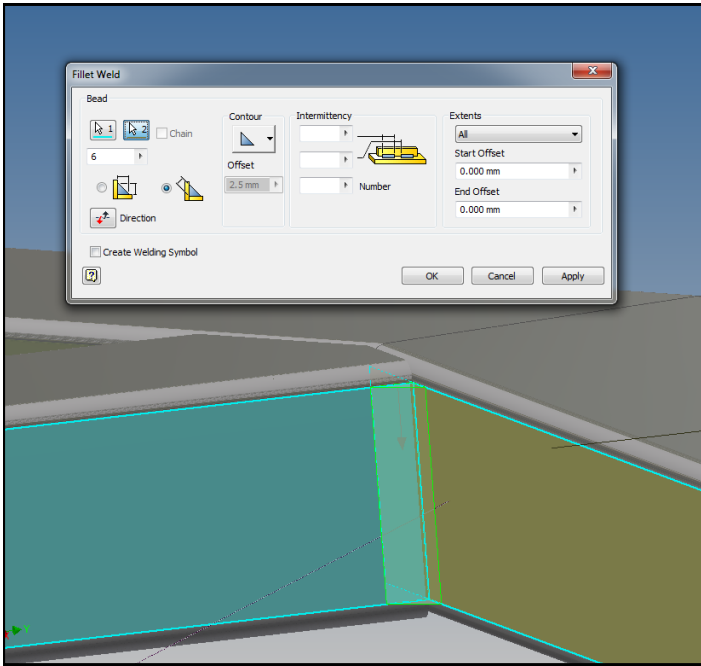


FIG 15.0

A finished weld should result.

As shown in Fig 16.0

FIG 16.0

