



Chair Arm Support





A. 3D Sketch.


Step 1. If necessary, open your CHAIR file.

Step 2. Click **Right**  on the Standard Views toolbar. (Ctrl-4)

Step 3. Click **3D Sketch**  on the Weldments toolbar.

Step 4. Click **Line**  (L) on the Sketch toolbar.

Step 5. Cursor changes to YZ plane  indicating sketching in YZ plane. Sketch vertical line down from the Midpoint of the top end of Front Leg, **Fig. 1**. To sketch line on Y axis, move cursor to midpoint  at top of Front Leg, click when cursor changes to . Move cursor down along Y axis, when cursor changes to  (yellow Y) click.

Step 6. Click **Smart Dimension**  (S) on the Sketch toolbar.

Step 7. Dimension line **6.5**, **Fig. 2**.

Step 8. Click **3D Sketch**  on the Weldments toolbar to exit 3D Sketch.

Step 9. Save. Use Ctrl-S.

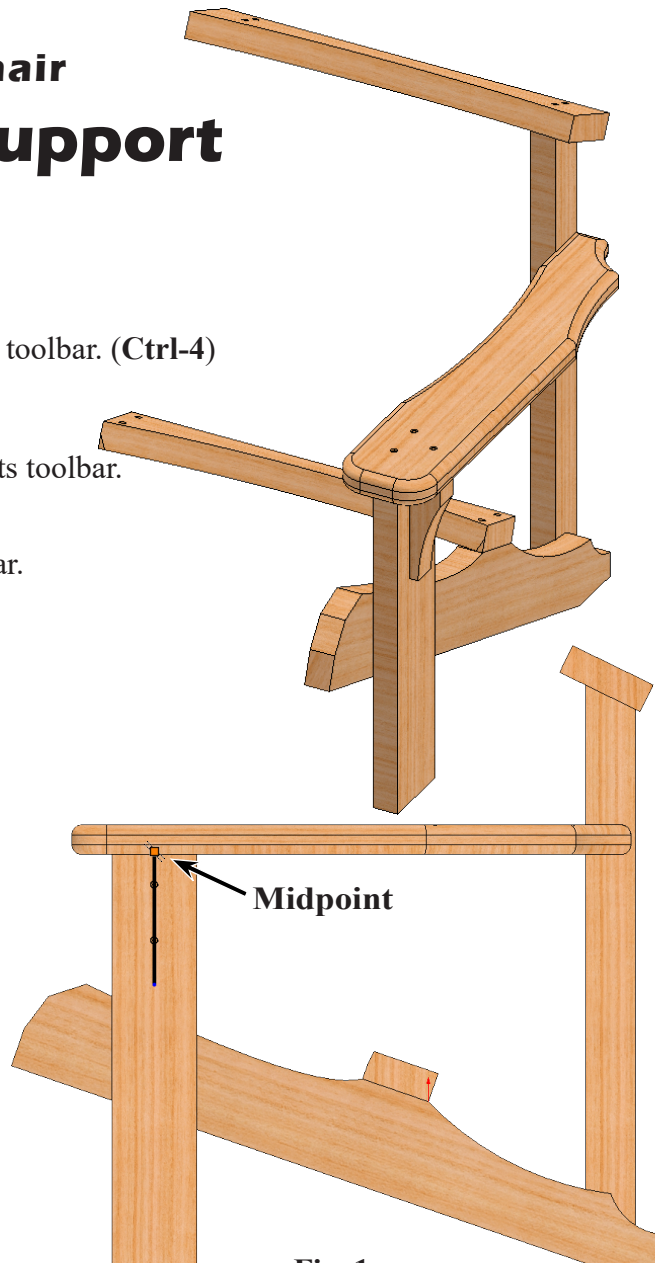


Fig. 1

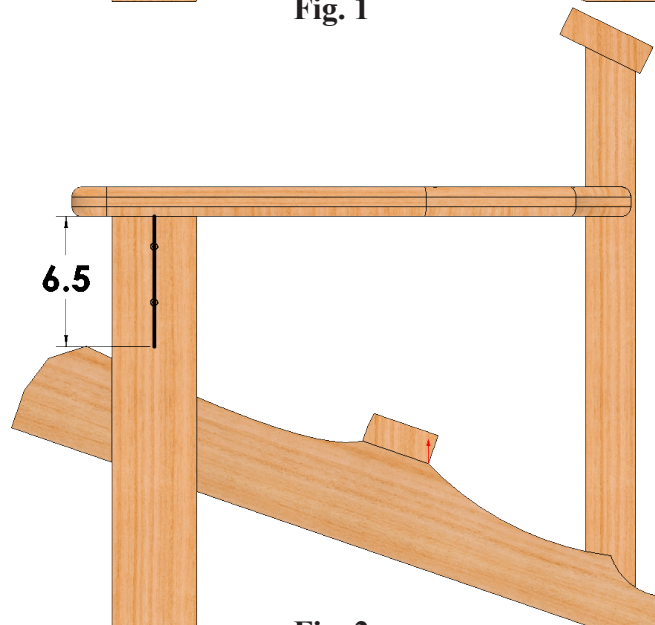


Fig. 2

B. Structural Member.

Step 1. Click **Trimetric**  on the Standard Views toolbar.

Step 2. Click **Structural Member**  on the Weldments toolbar.

Step 3. In the Structural Member Property Manager set:
 under Standard, **Fig. 3**
My Profiles
 under Type:
Chair Wood
 under Size:
2 x 4

click **3D sketch line**, **Fig. 4**

click **Locate Profile** button

click **MIDDLE POINT** on left side of profile sketch, **Fig. 5** and **Fig. 6**

click **OK**  .

Step 4. Save. Use **Ctrl-S**.

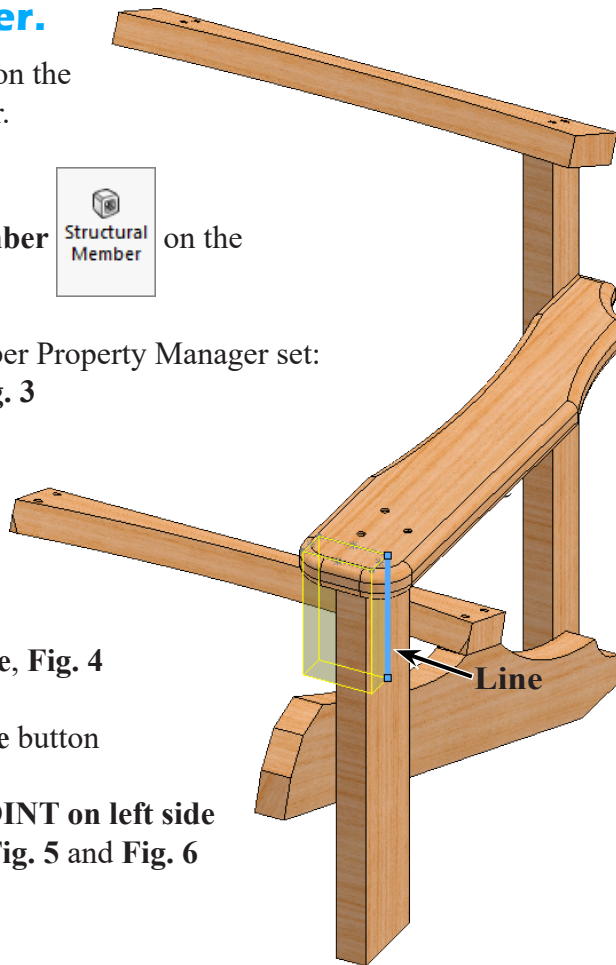


Fig. 4

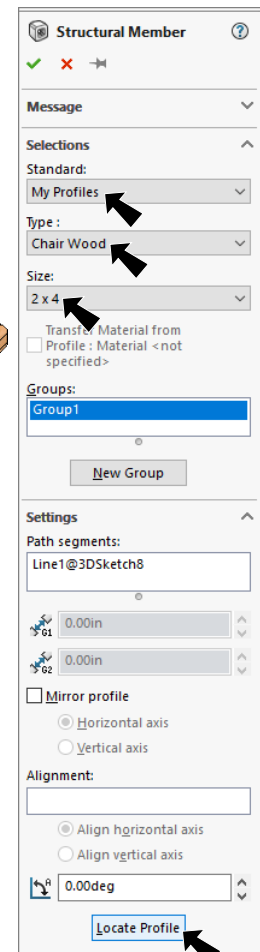


Fig. 3

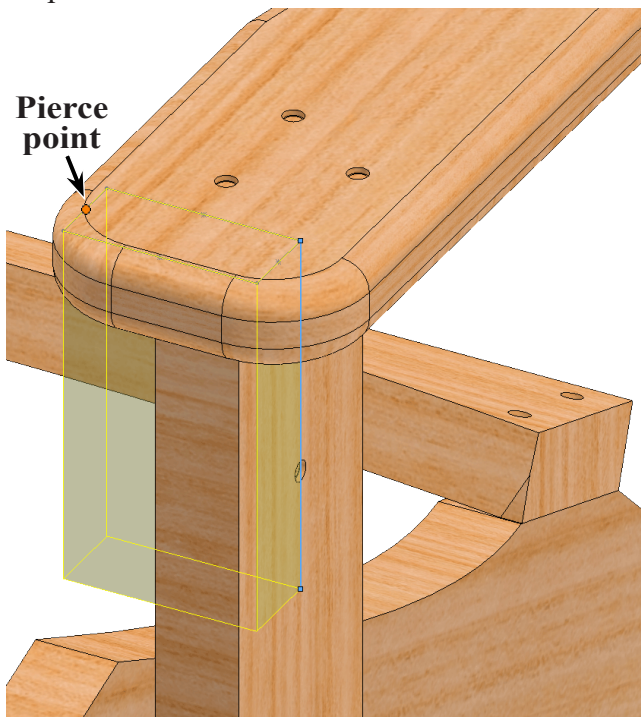


Fig. 5

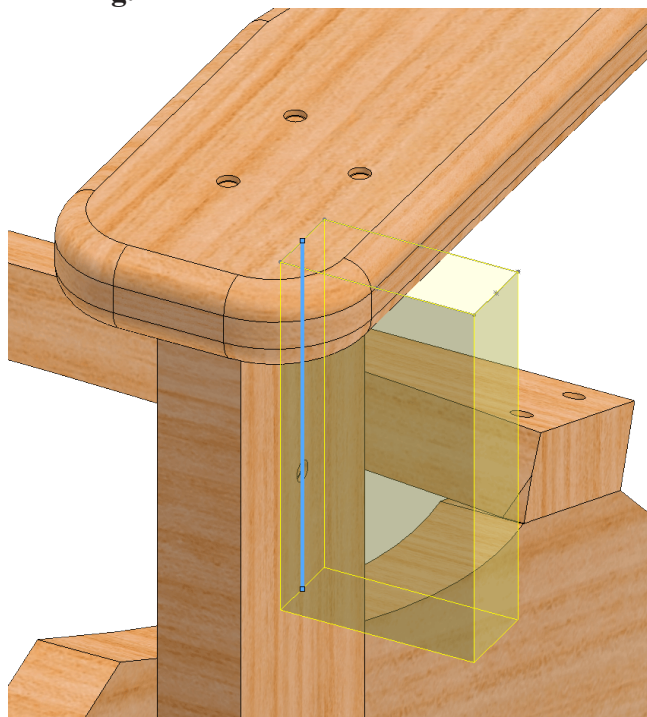



Fig. 6

C. Rename Chair Wood 2 x 4 ARM SUPPORT.

Step 1. Rename Chair Wood 2 X 4(1) to ARM SUPPORT in the Feature Manager, Fig. 7.

Step 2. Hide 3DSketch8. To hide, click 3DSketch8 in the Feature Manager and click **Hide**  on the context toolbar, Fig. 7.

D. Mapping Wood.


Step 1. Click PhotoView 360 Menu > Edit Appearance.

Step 2. In the Appearances Property Manager:
 under Selected Geometry, Fig. 8
right click in Selected Geometry box and
 click **Clear Selections**

click **Select Features** 

click **Arm Support**, Fig. 9

click **Mapping tab** , Fig. 10
 under Mapping controls

click **Surface mapping** 
Rotation 90

click **Regular mapping size** 

click **OK** .

Step 3. Save. Use Ctrl-S.

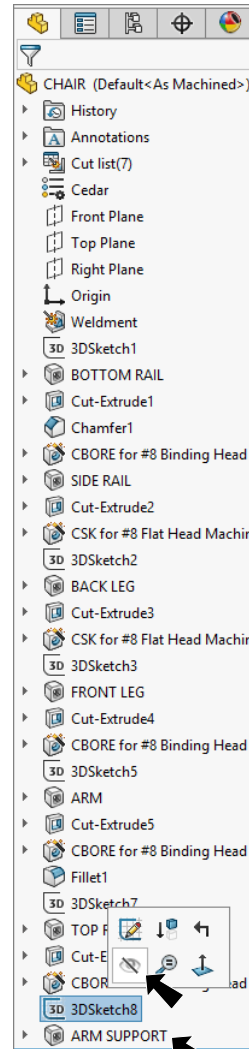


Fig. 7

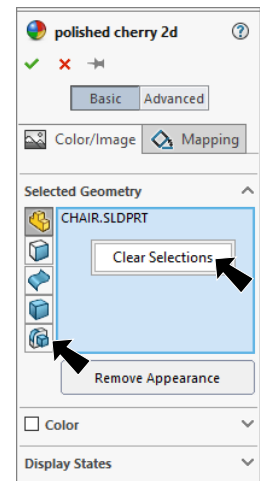


Fig. 8

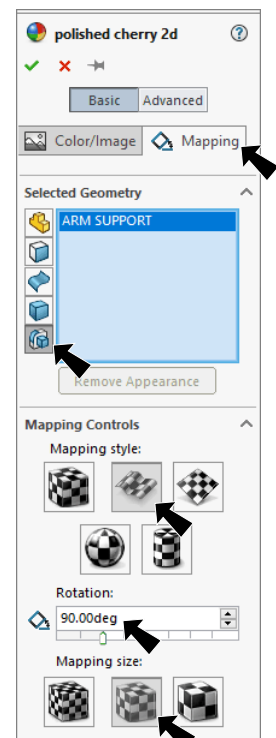


Fig. 10

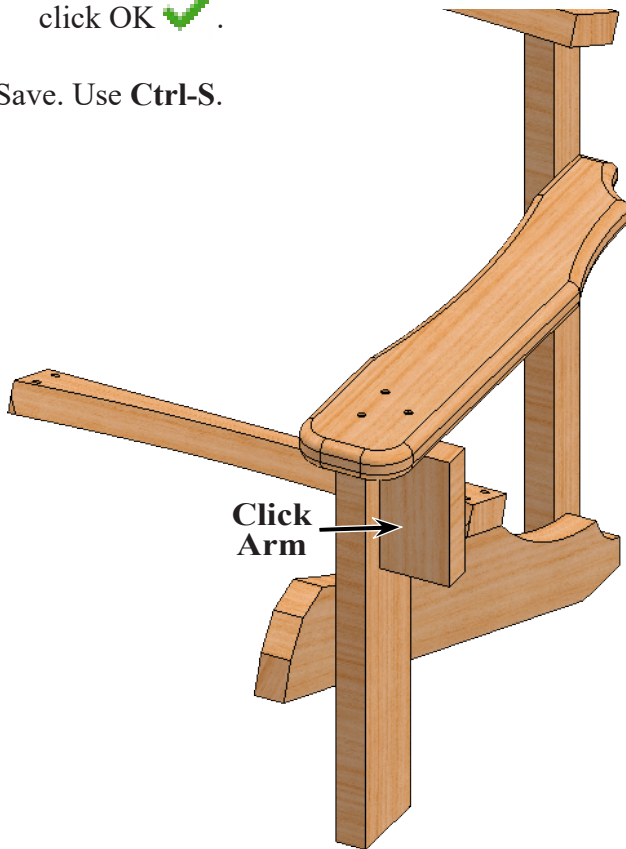




Fig. 9

E. Extruded Cut.



Step 1. Click **front face** of Arm Support member and click **Sketch**  on the context toolbar, **Fig. 11**.

Step 2. Click **Normal To**  on the Standard Views toolbar. (**Ctrl-8**)


Step 3. With the face selected, click **Zoom to Selection**  (**Q**) on the View toolbar to zoom to arm.

Step 4. Click **Line**  (**L**) on the Sketch toolbar.

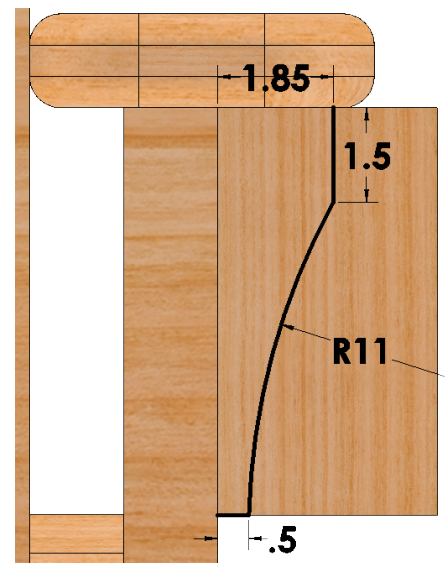
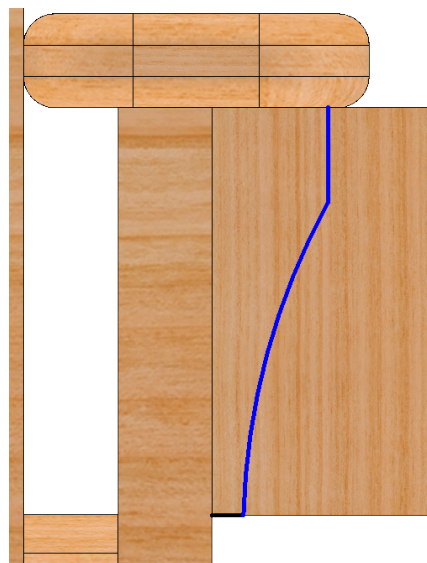
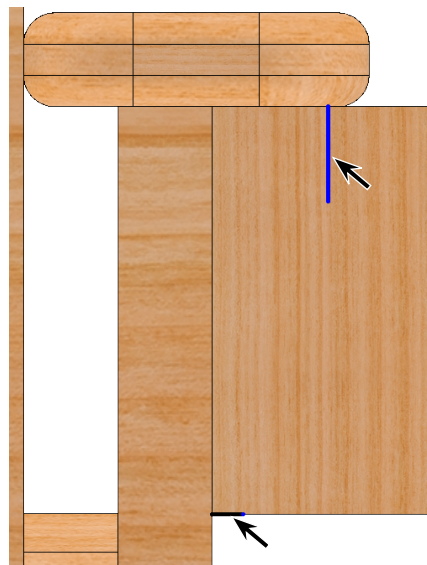
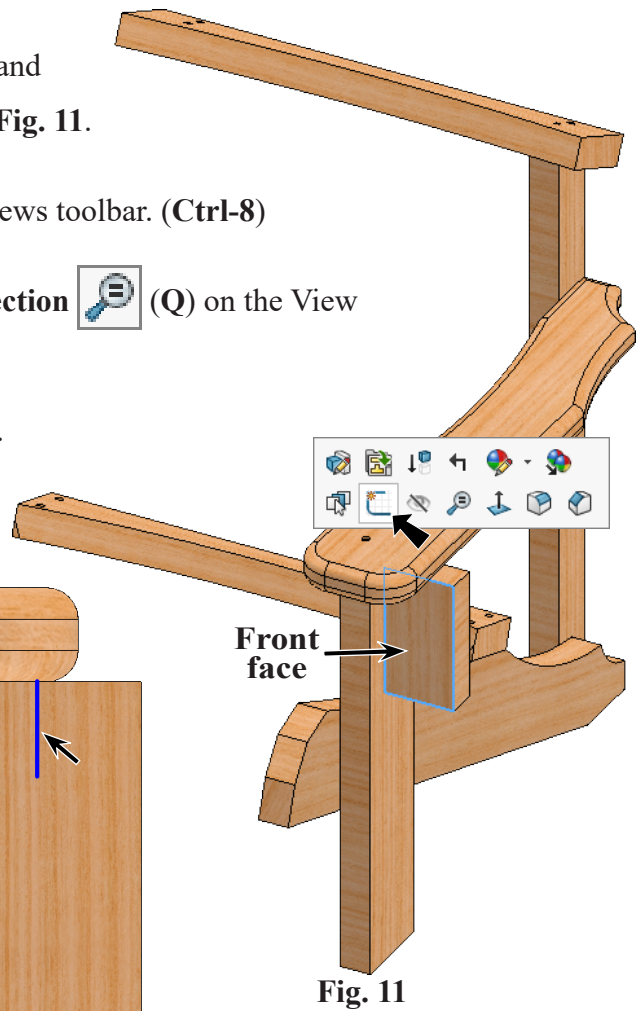
Step 5. Sketch 2 lines, **Fig. 12**.

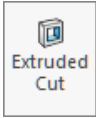
Step 6. Click **3 Point Arc**  (**S**) in the **Arc flyout**  on the Sketch toolbar.

Step 7. Sketch a 3 Point Arc across end-points of the two lines, **Fig. 13**.

Step 8. Click **Smart Dimension**  (**S**) on the Sketch toolbar.

Step 9. Add dimensions, **Fig. 14**.



Step 10. Click **Extruded Cut**  on the Weldments toolbar.

Step 11. In the Cut-Extrude Property Manager set:

under Direction 1, **Fig. 15**
End Condition **Through All**

The Direction arrow should point towards area to be cut away, **Fig. 16**. If arrow is pointing in wrong direction, check **Flip side to cut** to cut, **Fig. 15**.

Click OK .

Step 12. Save. Use **Ctrl-S**.

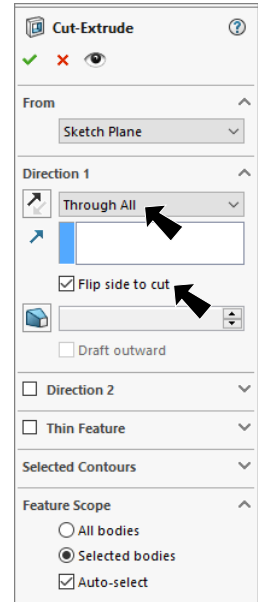
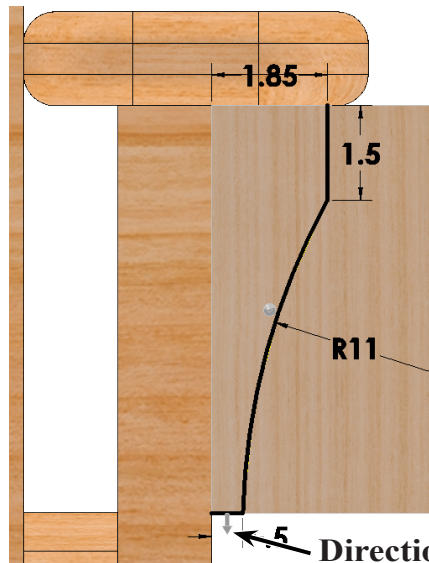


Fig. 15

Fig. 16

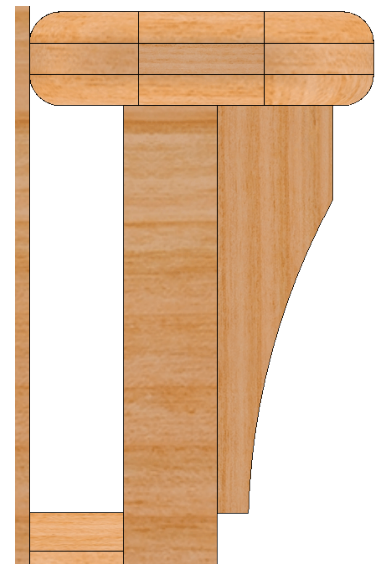


Fig. 17

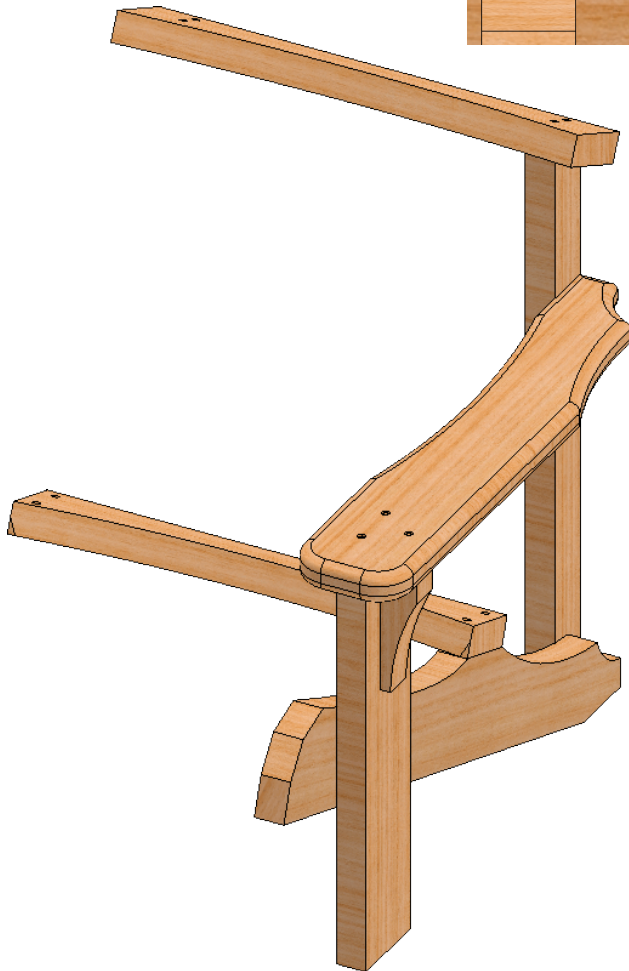


Fig. 18