

Mastercam 2017 Chapter 5 Motor Mount Pattern

A. Create Rectangle.

Step 1. If necessary start a new Mastercam file, click New

 on the Quick Access Toolbar QAT (Ctrl-N).



Step 2. On the Wireframe tab **WIREFRAME** click **Rectangle**



Step 3. In the Rectangle function panel:
under Dimensions, **Fig. 1**

Width 3.3

Height .5

Click the down arrow of AutoCursor on the Selection Bar and select **Origin** from menu, **Fig. 2**. (O key on keyboard)

Click OK .

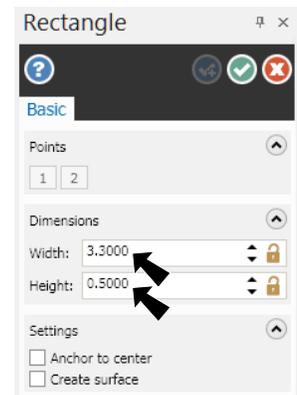


Fig. 1

Step 4. **Right click** the graphics window



Fig. 2

and click **Fit**  (Alt-F1).



Fig. 3

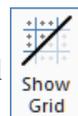
B. Save As "MOTOR MOUNT PATTERN"

Step 1. Click **Save As**  (Ctrl-Shift-S) on the Quick Access Toolbar QAT.

Step 2. Key-in **MOTOR MOUNT PATTERN** for the filename and press ENTER.

C. Set Grid And Snap .1.

Step 1. On the View tab **VIEW** click **Show Grid** and **Snap to**



Step 2. Click the **Dialog Box Launcher**  (Alt-G), **Fig. 4**.

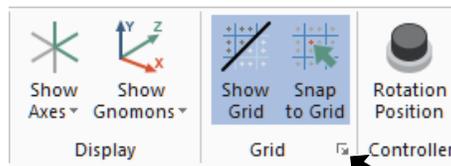


Fig. 4

Step 3. In the Grid Settings dialog box:
under Spacing, **Fig. 5**

X and Y Spacing .1

Click OK .

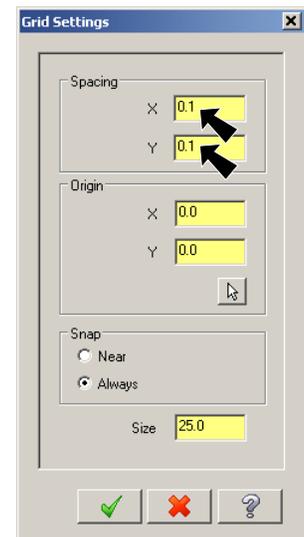


Fig. 5

D. Set Attributes-Cyan/Dash.

Step 1. Sketch the next lines, the bend lines a different color and line style. **Right click** in the graphics window and on the Mini Toolbar click **Wireframe Color**  drop down arrow, set line style to **dashed** and select **cyan**, **Fig. 6**.

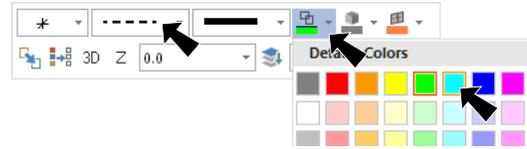
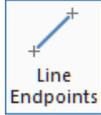


Fig. 6

E. Sketch Bend Lines.

Step 1. On the Wireframe tab **WIREFRAME** click **Line Endpoints** .

Step 2. Sketch the lines in **Fig. 7**.
Use grid to determine location of lines.
Click OK .

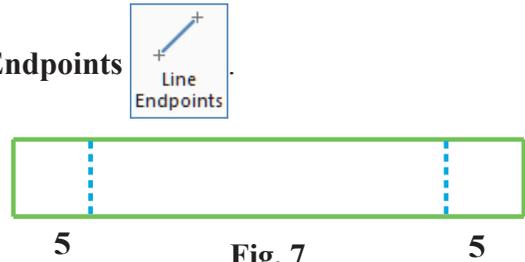


Fig. 7

F. Set Attributes-Red/Solid.

Step 1. Sketch the holes **red** color and change line style back to **solid**. **Right click** in the graphics window and on the Mini Toolbar click **Wireframe Color**  drop down arrow, set line style to **solid** and select **red**, **Fig. 8**.

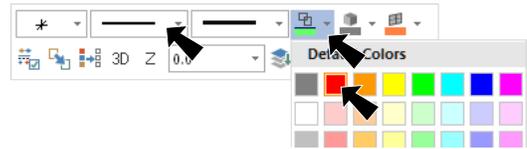
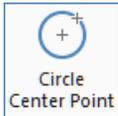


Fig. 8

G. Holes.

Step 1. On the Wireframe tab **WIREFRAME** click **Circle Center Point**



Step 2. In the Circle Center Point function panel:
under Size, **Fig. 9**

Click **Locked** 

Diameter **.125** and press ENTER

Press **spacebar** to activate AutoCursor **Fast Point** 

Key-in **.3, .25**  and press ENTER

Press **spacebar** to activate **Fast Point** 

Key-in **3, .25**  and press ENTER twice

Click OK .

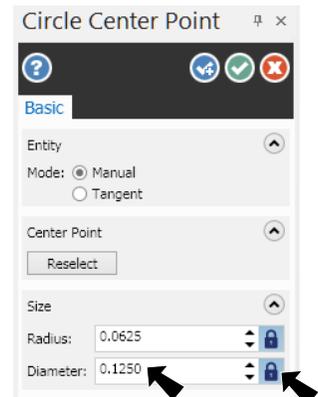


Fig. 9

Step 3. Save  (Ctrl-S).

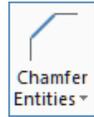


Fig. 10

H. Chamfer Chain.

Step 1. Set color for chamfers to color of rectangle. Use **Alt-X**, then click a line of rectangle.

Step 2. On the Wireframe tab **WIREFRAME** click **Chamfer Chains on Chamfer Entities** drop down.



Step 3. Click a line of rectangle to chain rectangle, **Fig. 11**.



Fig. 11

Step 4. Click OK  in the Chaining dialog box, **Fig. 12**.

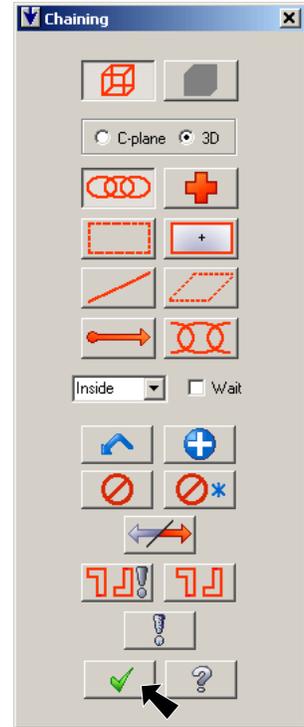


Fig. 12

Step 5. In the Chamfer Chains function panel:
under Entity, **Fig. 13**
Distance .1

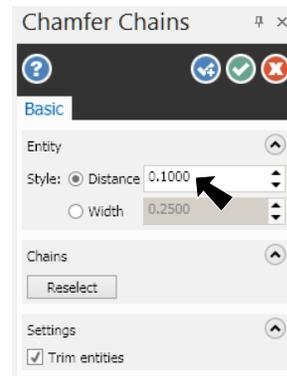


Fig. 13

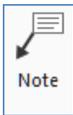
Click OK .

Step 6. Save  (Ctrl-S).



Fig. 14

I. Label Bend Lines.

Step 1. On the Drafting tab **DRAFTING** click **Note** .

Step 2. In the Note dialog box:
Lock the Caps, key-in: **BEND**
Select **Label with Multiple Leaders**
Click OK, **Fig. 15**.

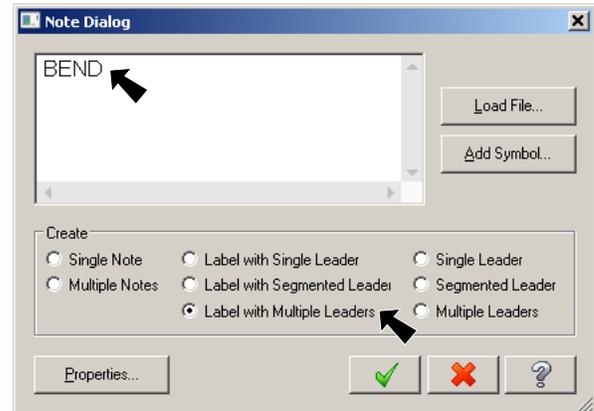
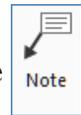


Fig. 15

Step 3. Click **left green bend line at Position 1** for the arrowhead position, **Fig. 16**.

Step 4. Click **right green bend line at Position 2** for the arrowhead Position 2, **Fig. 16**.

Step 5. Press the **ESC** key.

Step 6. Click **Position 3** for the text position, **Fig. 17**.

Step 7. Save  (Ctrl-S).

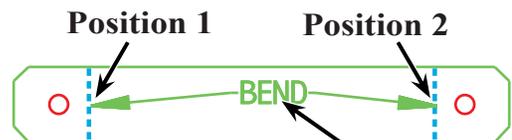
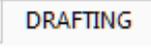
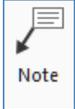


Fig. 16

J. Add Your Names And The Period To The Drawing.

Step 1. On the Drafting tab  click **Note** .

Step 2. Lock the Caps, key-in: DRAWN BY: FIRST AND LAST NAME AND FIRST AND LAST NAME AND PERIOD 1 (your period) and click OK.

Step 3. Use **Page Down** key to zoom out. Center text at bottom of drawing and click, **Fig. 17**.

Step 4. Save  (Ctrl-S).



DRAWN BY: MR. HALEY PERIOD 1

Fig. 17