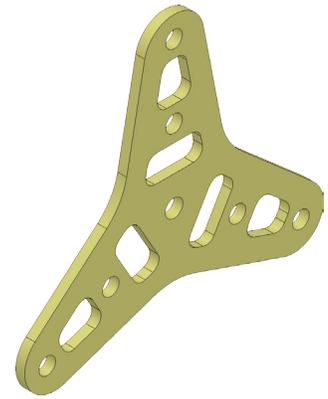## Cluster Wheel Vehicle
Inside Bracket

A. Open Outside Bracket and Save as Inside.

Step 1.   Open your **OUTSIDE BRACKET**.

Step 2.   Click File Menu > Save As.

Step 3.   Key-in **INSIDE BRACKET** for the filename and press ENTER.

B. Delete Fillet2.

Step 1.   Click **Fillet2** feature in the Feature Manager and press **Delete key** on keyboard, **Fig. 1**.

C. Edit Sketch2.

Step 1.   Click **Cut-Extrude1** in the Feature Manager and click **Edit Sketch** on the context toolbar, **Fig. 2**.

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

Step 3.   Click **Line** (**L**) on the Sketch toolbar.

Step 4.   Sketch **two horizontal line across arm cutout**, **Fig. 3**. Double click to terminate the chain of lines.
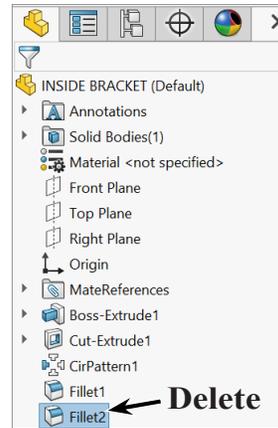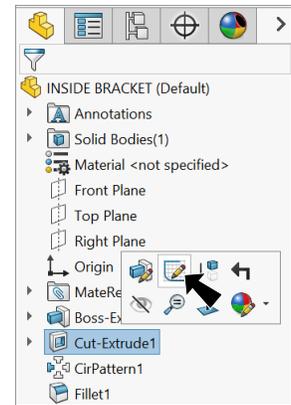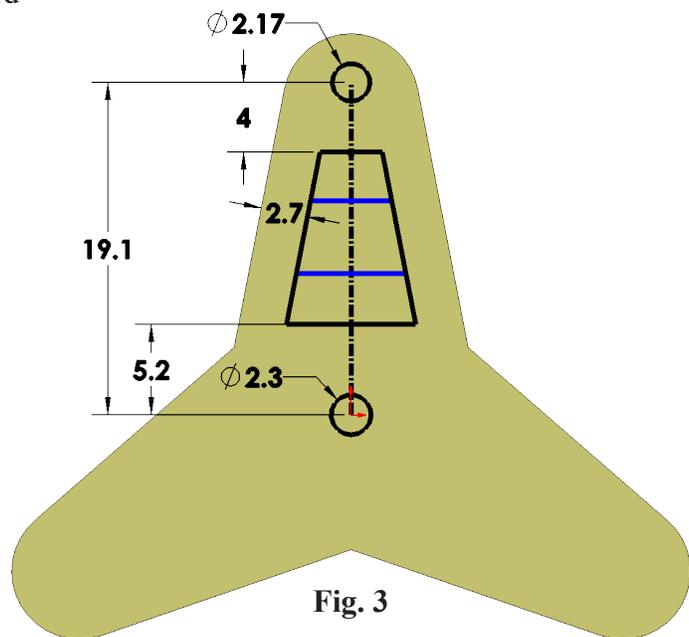
Fig. 1

Fig. 2
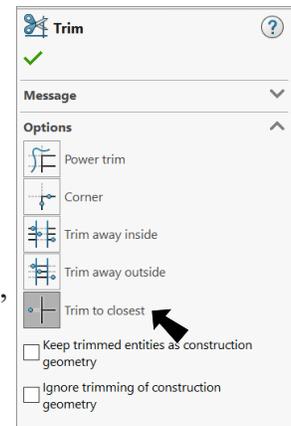
Fig. 3

Step 5.   Click **Trim Entities** [Trim Entities icon] (**S**) on the Sketch toolbar.

Step 6.   In the Trim Property Manger:

select **Trim to closest** [icon], **Fig. 4**

Trim the two lines of arm cutout line between the horizontal lines,
ments to trim, **Fig. 5**.
Results shown in **Fig. 6**.

Click OK [checkmark] when done.

Fig. 4

Step 7.   Click **Circle** [icon]
(**S**) on the Sketch
toolbar.

Step 8.   Sketch **circle at
midpoint** [icon] **of
centerline**,
Fig. 7. To wake
up midpoint,
hover cursor over
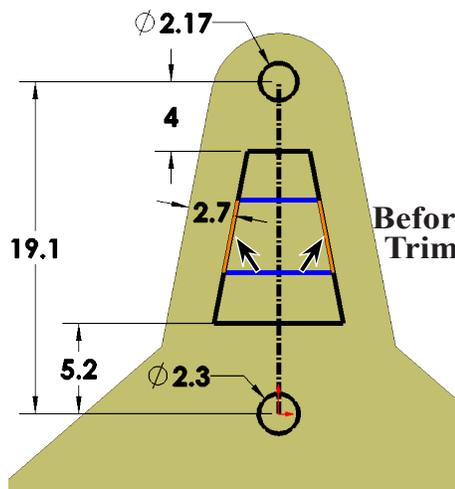centerline.
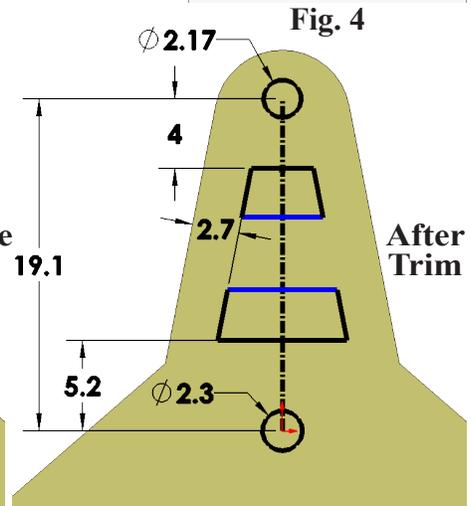

**Before
Trim**

Fig. 5

**After
Trim**

Fig. 6

Step 9.   **Unselect Circle
tool**. To unselect,
right click graph-
ics area and click
Select [icon] from
menu.

Step 10. **Ctrl click top
and new circle**
to select both.
Release Ctrl key
and click **Make

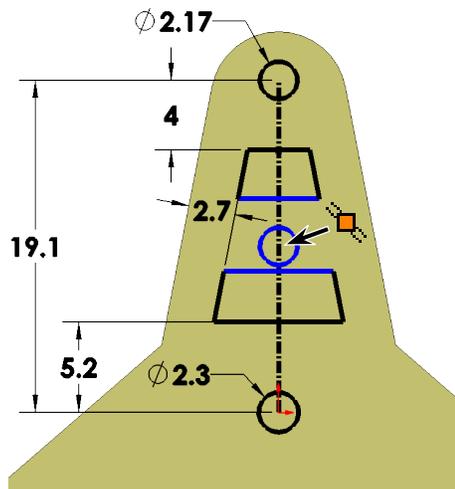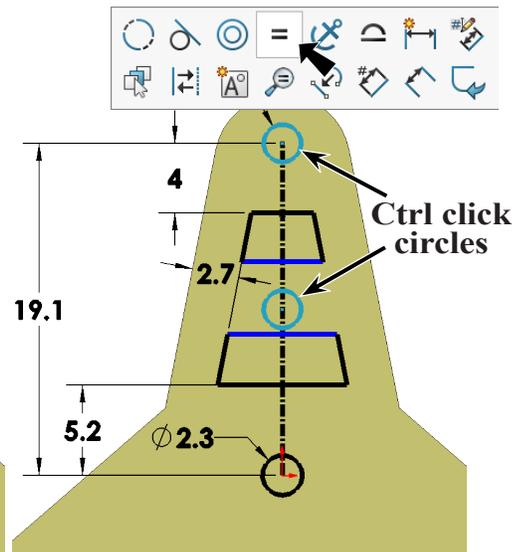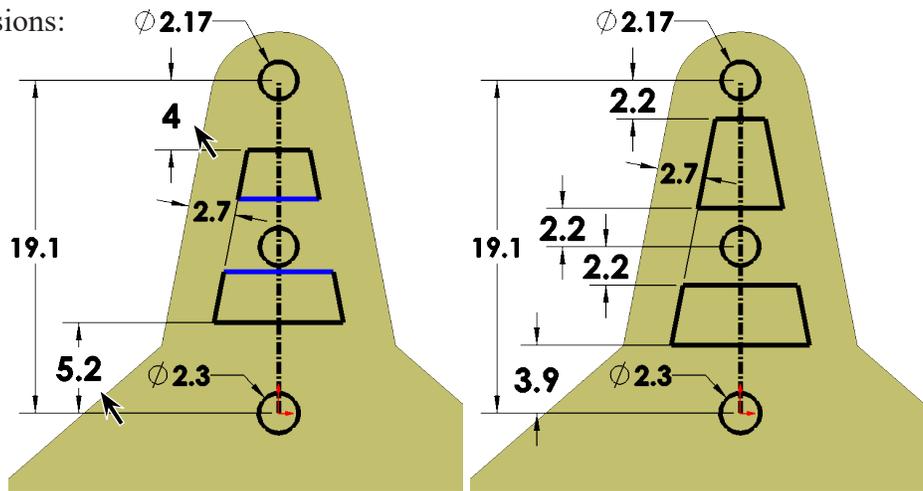Equal** [=] on
the context toolbar,
Fig. 8.

Fig. 7

**Ctrl click
circles**

Fig. 8

Step 11. Change two dimensions:
   4 to 2.2
   5.2 to 3.9
   add the two 2.2 dimensions, **Fig. 9**.

Step 12. Click **Exit Sketch** on the Sketch toolbar.

Step 13. Save (**Ctrl-S**).

Fig. 9

D. Fillets.

Step 1. Click **Isometric** on the Standard Views toolbar. (**Ctrl-7**)

Step 2. Click **Fillet** on the Features toolbar.

Step 3. In the Fillet Property Manager set:
   select **FilletXpert**, **Fig. 10**

   ② **Radius** 1.2
      click an **inside corner edge of cutout**, **Fig. 11**

      click **Connected to start internal loops** 23 Edges
      on the Fillet pop-up
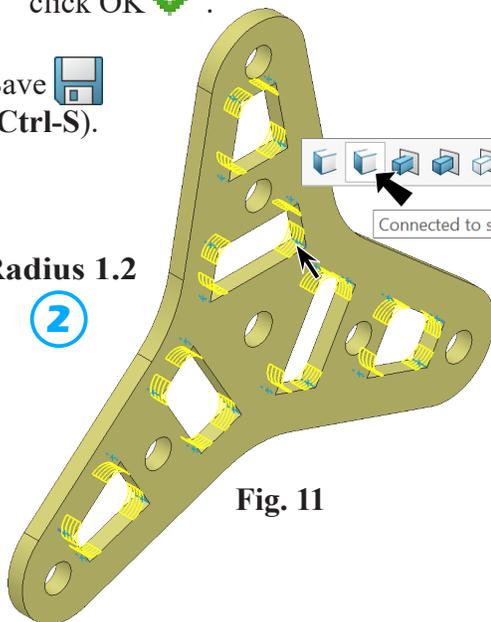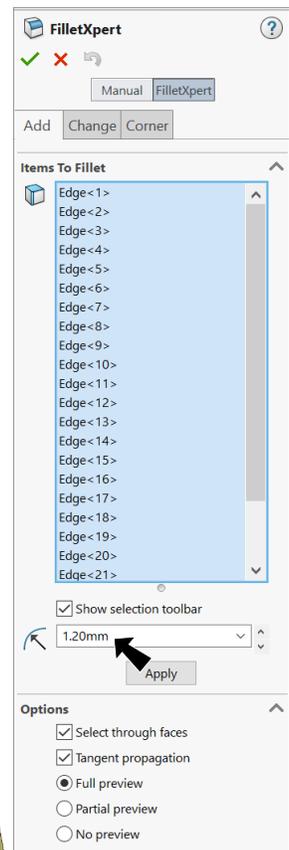
      click OK .

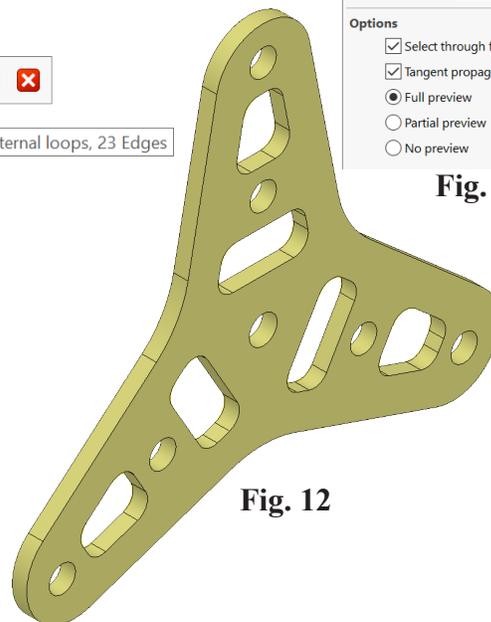**Step 4.** Save (**Ctrl-S**).

Radius 1.2
②

Connected to start internal loops, 23 Edges

Fig. 11

Fig. 10

Fig. 12