

Bike Horn Assembly

A. Open Assembly File.

Step 1. Open your **Bike Horn Assembly** file.

Step 2. **Change Transparency of TOP** part. To change Transparency, click **Top part** in the Feature Manager and **Change Transparency** on the context toolbar, **Fig. 1**.

Step 3. Rotate view to view **inside of grill**, hold down middle mouse button (wheel) and drag to rotate view, **Fig. 2**.

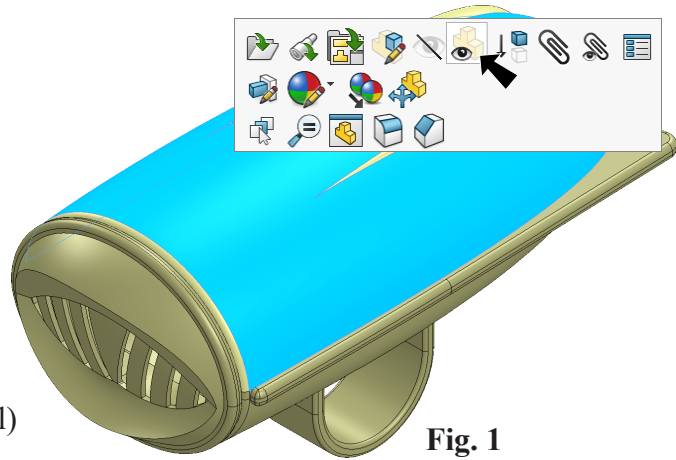
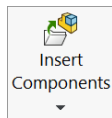


Fig. 1

B. Insert Speaker.

Step 1. Click **Insert Components** on the Assembly toolbar.



Step 2. Select your **SPEAKER** file and click Open from the Open dialog box.

Step 3. Position the Speaker as shown in, **Fig. 3**.

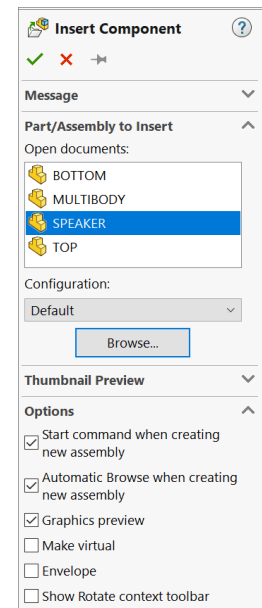


Fig. 2

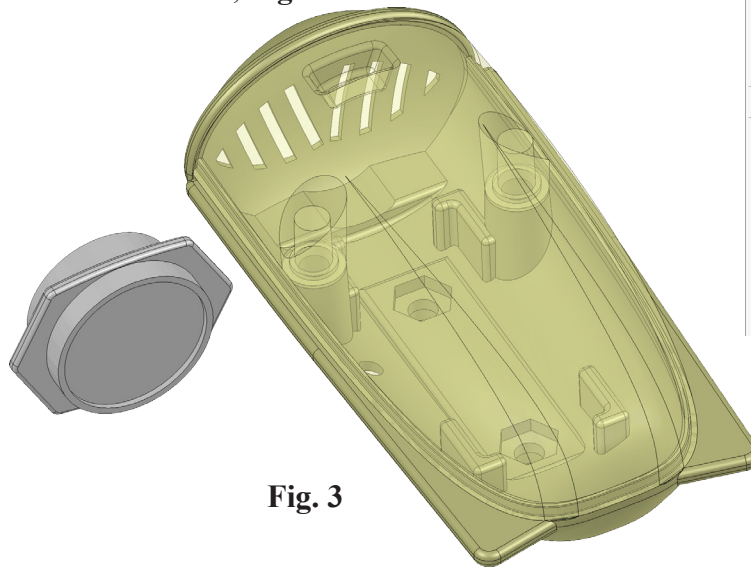




Fig. 3

C. Mate: Speaker.

Step 1. Click **Top Plane**  in the Feature Manager and click **Mate**  on the context toolbar, **Fig. 4**.

Step 2. Expand the flyout Feature Manager design tree (click ) in the top left corner of the graphics area, expand **SPEAKER** and click **Top Plane** , **Fig. 5**.

Step 3. Click Add/Finish Mate  to add a **Coincident** mate.

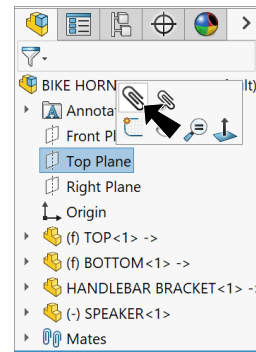


Fig. 4

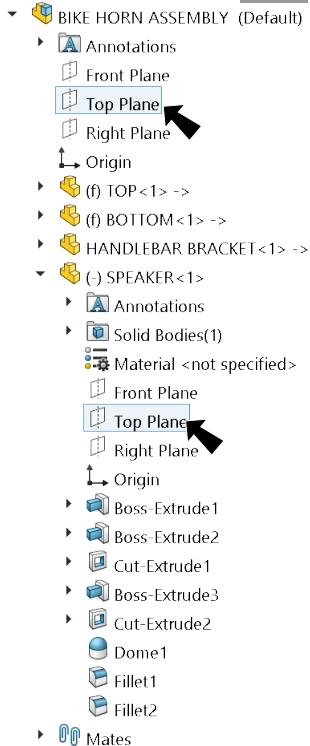


Fig. 5

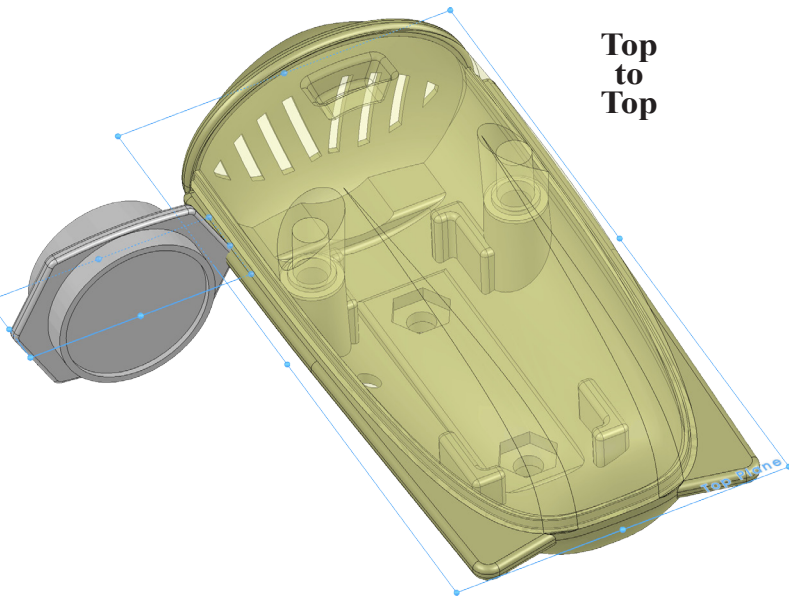







Fig. 6

Step 4. Click **Right Plane**  in flyout Feature Manager design tree in the Feature Manager, expand **SPEAKER** and click **Right Plane** , **Fig. 7**.

Step 5. Click Add/Finish Mate  to add a **Coincident** mate.

Step 6. Click **Front Plane**  in flyout Feature Manager design tree, expand **SPEAKER** and click **Front Plane** , **Fig. 9**.

Step 7. Click **Distance**  in Mate pop-up, **Fig. 10**. Set **distance 7** and press ENTER. The Speaker should be positioned inside, **Fig. 11**. If positioned in opposite direction, click **Flip**

Dimension  in the Mate pop-up. Click Add/Finish Mate  to add Distance mate.

Step 8. Click OK  in the Property Manager.

Step 9. Save  (**Ctrl-S**).

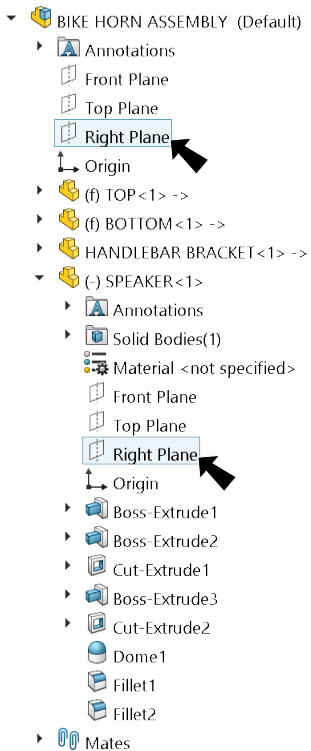


Fig. 7

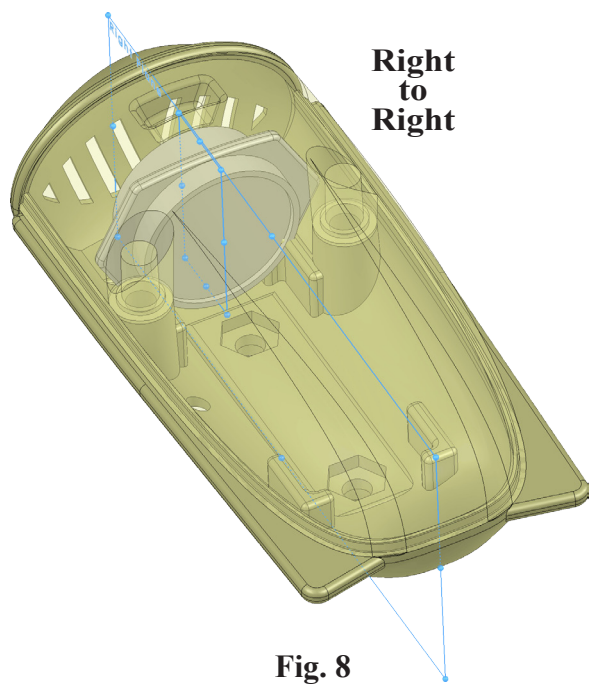


Fig. 8

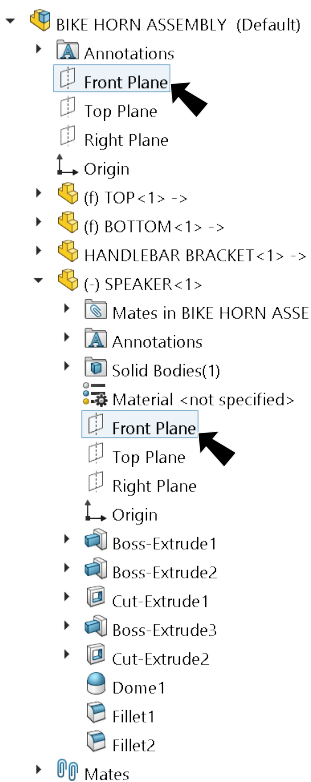


Fig. 9



Fig. 10

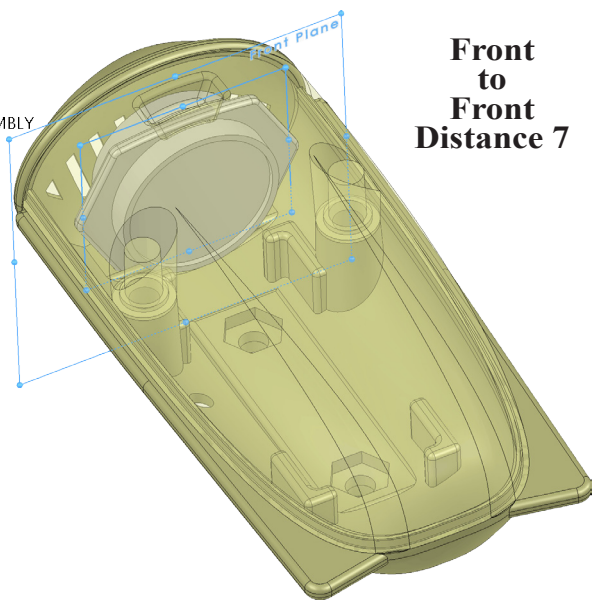



Fig. 11

D. Indent Speaker into Top.

Step 1. Click **Top** component in the graphics area and click **Edit Part**  on the context toolbar, **Fig. 12**. Click part were **Bottom part is not behind Top part**.

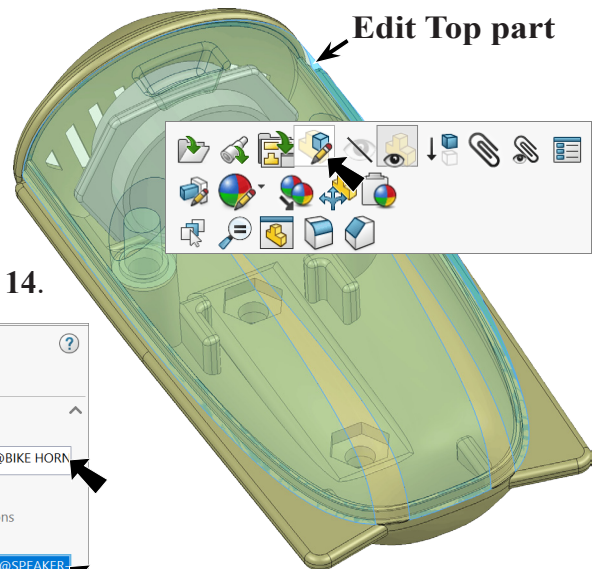


Fig. 12

Step 2. Rotate view to view **inside of front grill**, **Fig. 14**.

Step 3. Click Insert Menu > Features > Indent.

Step 4. In the Indent Property Manager: under Selections, **Fig. 13**

Target body:

click **Top**, **Fig. 14**

Tool body region:

click **Speaker**

check **Cut**

under Parameters

Clearance .2

click **OK** .

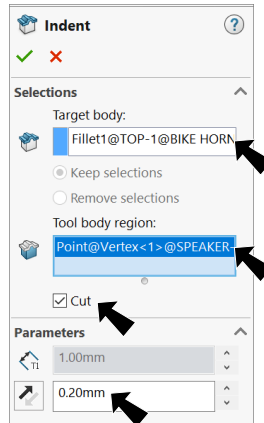


Fig. 13

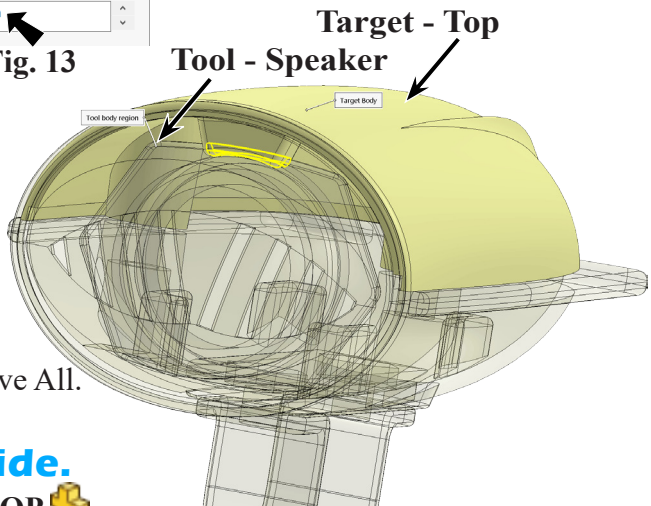




Fig. 14

Step 5. Click **Edit Component**  on the Features toolbar to **exit**.

Step 6. Save All  (Alt-F L). File Menu > Save All.

E. Change Transparency and Hide.

Step 1. **Change Transparency back and Hide TOP**  part. To change transparency back, Click **Top** component in the graphics area and click **Change Transparency**  on the context toolbar, **Fig. 15**. Click part were Bottom part is not behind Top part.. Use **Tab key** to **hide Top**.

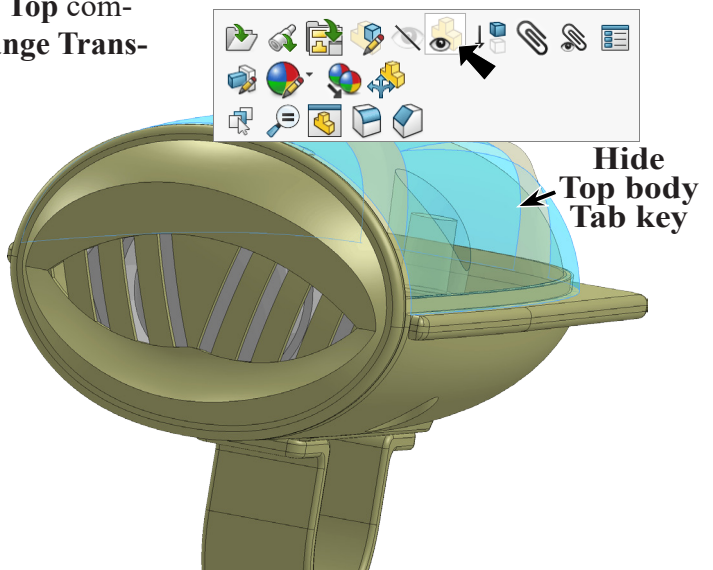



Fig. 15

F. Indent Speaker into Bottom.

Step 1. Click **Bottom** component in the graphics area and click **Edit Part**  on the context toolbar, **Fig. 16**.

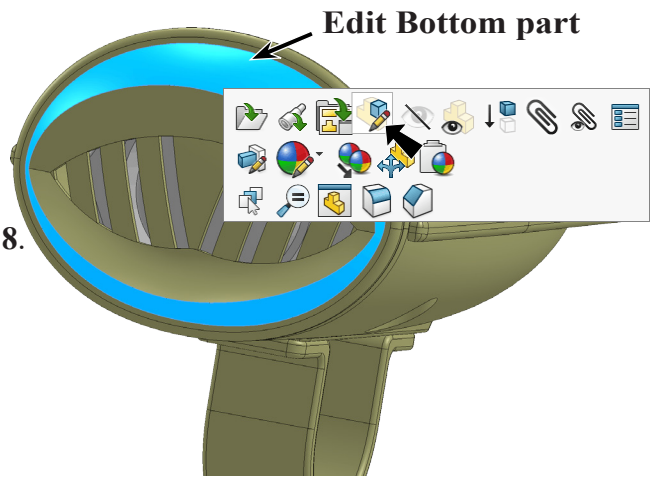


Fig. 16


Step 2. Rotate view to view **inside of grill**, **Fig. 18**.

Step 3. Click Insert Menu > Features > Indent.

Step 4. In the Indent Property Manager:
under Selections, **Fig. 17**

Target body:
click **Bottom**, **Fig. 18**

Tool body region:
click **Speaker**

check **Cut**
under Parameters
Clearance .2
click **OK** .

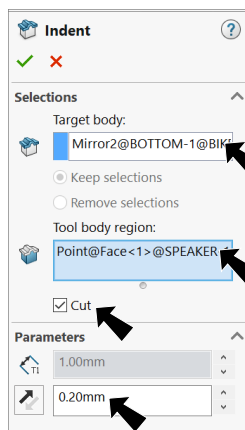


Fig. 17

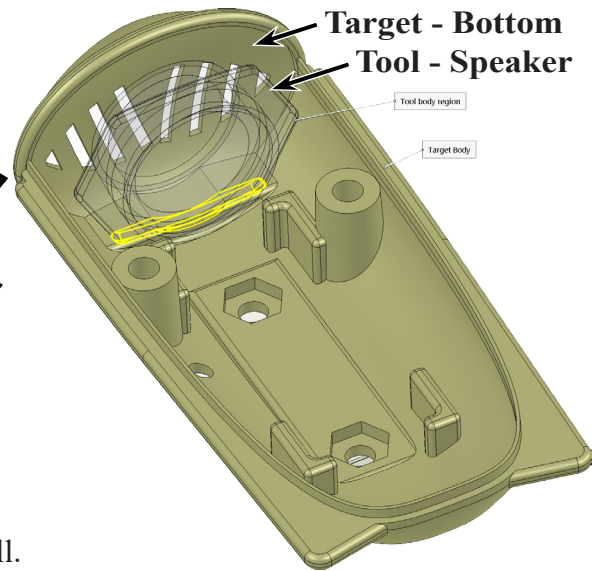
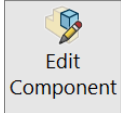


Fig. 18

Step 5. Click **Edit Component**

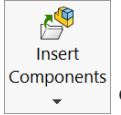


on the Features toolbar to **exit**.

Step 6. Save All  (Alt-F L). File Menu > Save All.

G. Insert Battery Holder.

Step 1. Click **Insert Components**



on the Assembly toolbar.

Step 2. Select your **Battery Holder** file and click **Open** from the **Open** dialog box.

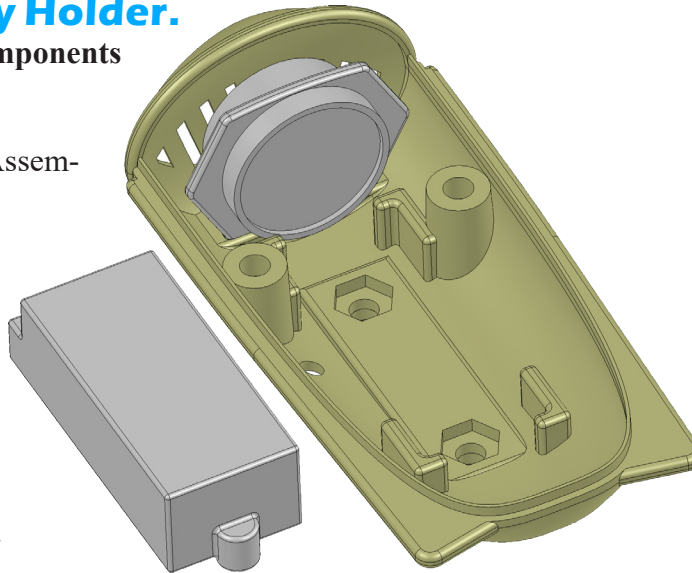


Fig. 20

Step 3. Place the **Battery Holder**, **Fig. 20**.

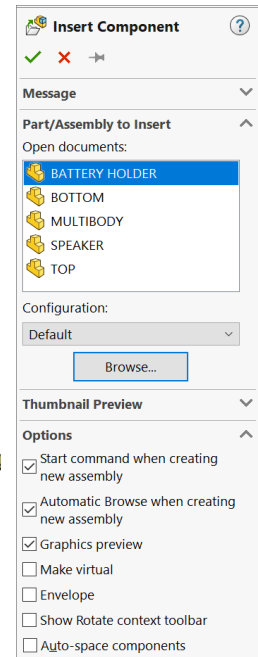


Fig. 19

H. Mate: Battery Holder.

Step 1. Click **Right Plane**  in the Feature Manager and click **Mate**  on the context toolbar, **Fig. 21**.

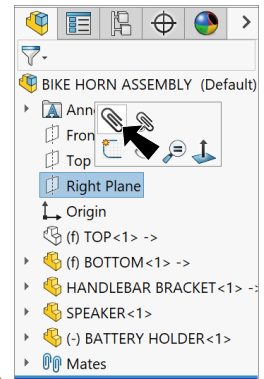



Fig. 21

Step 2. Expand the flyout Feature Manager design tree, expand **BATTERY HOLDER** and click **Right Plane** , **Fig. 22**.

Step 3. Click **Add/Finish Mate**  to add a **Coincident** mate.

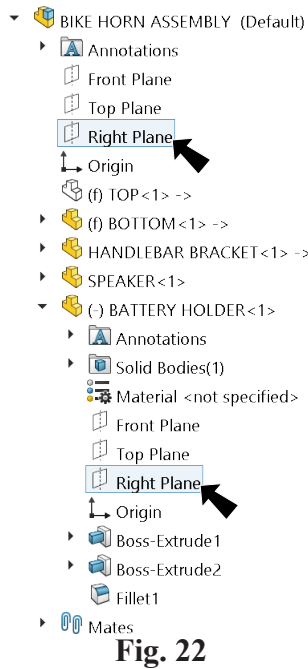


Fig. 22

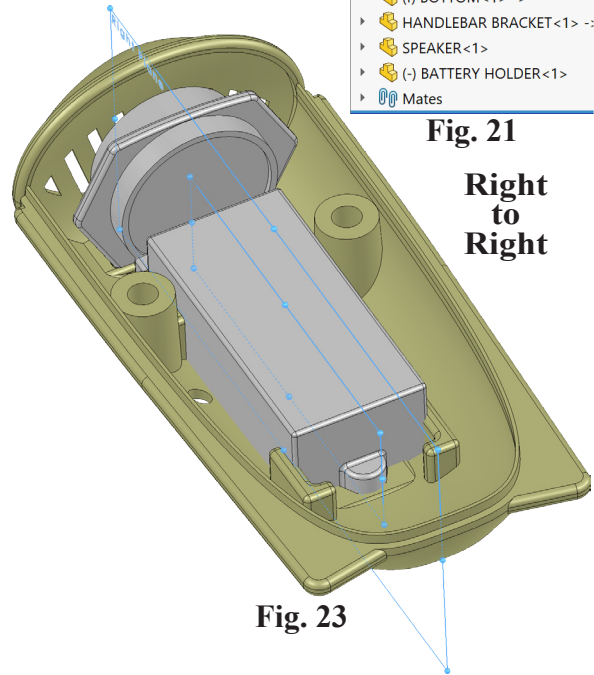




Fig. 23

Right to Right

Step 4. Click **Front Plane**  in flyout Feature Manager design tree, expand **BATTERY HOLDER** and click **Front Plane** , **Fig. 24**.

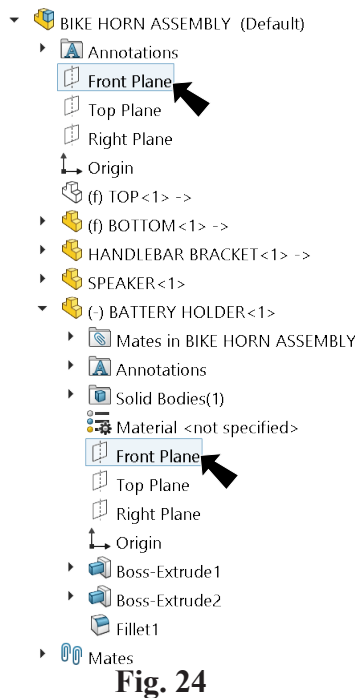


Fig. 24




Step 5. Click **Distance**  in **Mate** pop-up, **Fig. 25**. Set **distance 49** and press **ENTER**. The Battery Holder should be positioned inside, **Fig. 26**. If positioned in opposite direction, click **Flip Dimension**  in the **Mate** pop-up. Click **Add/Finish Mate**  to add **Distance** mate.



Fig. 25

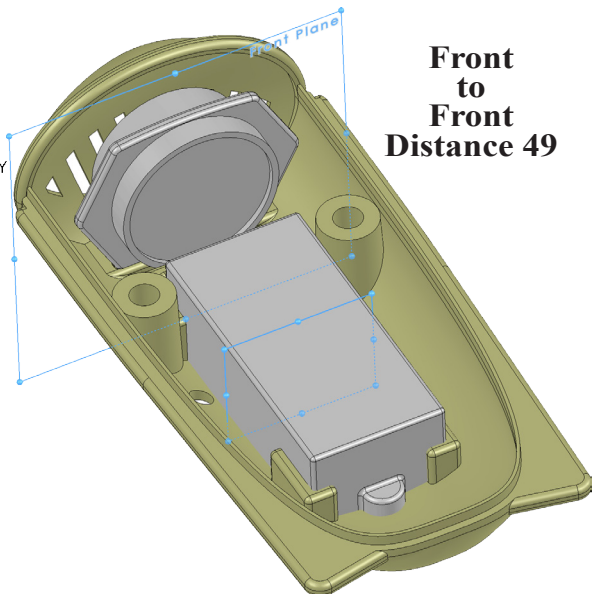







Fig. 26

Front to Front Distance 49

Step 6. Click **Top Plane**  in flyout Feature Manager design tree in the Feature Manager, expand **BATTERY HOLDER** and click **Top Plane** , **Fig. 27**.

Step 7. Click **Distance**  in Mate pop-up, **Fig. 28**. Set **distance 7.7** and press ENTER. The Battery Holder should be positioned inside, **Fig. 29**. If positioned in opposite direction, click **Flip Dimension**  in the Mate pop-up. Click Add/Finish Mate  to add Distance mate.

Step 8. Click **OK**  in the Property Manager.

Step 9. Save  (**Ctrl-S**).

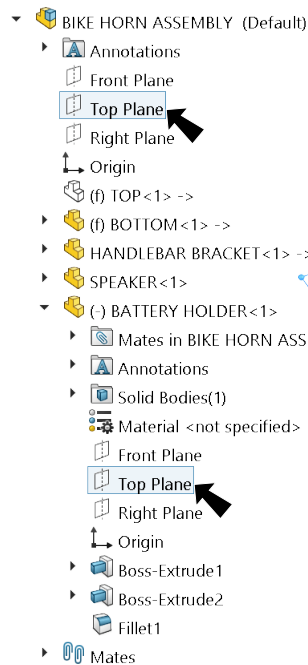


Fig. 27

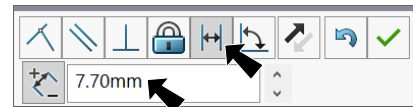


Fig. 28

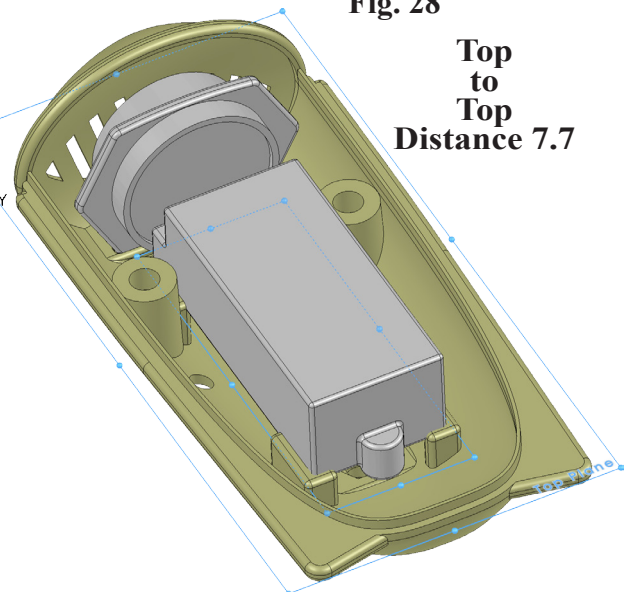


Fig. 29

I. Indent Battery Holder in Bottom.

Step 1. Click **Bottom** component in the graphics area and click **Edit Part**  on the context toolbar, **Fig. 30**.

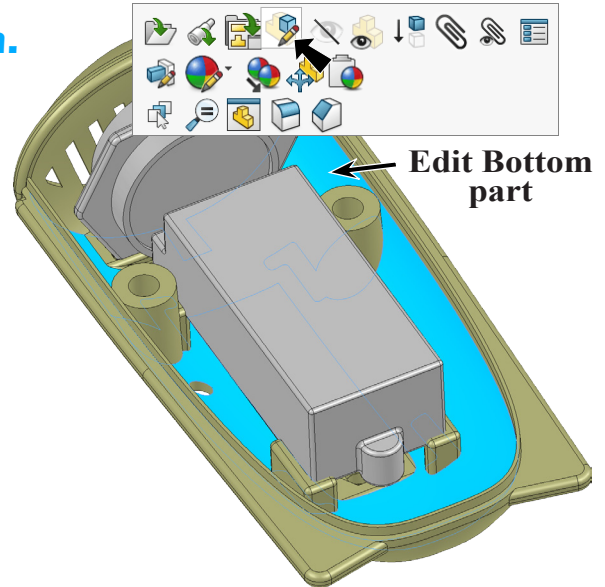



Fig. 30

Step 2. Click Insert Menu > Features > Indent.

Step 3. In the Indent Property Manager:
 under Selections, **Fig. 31**
 Target body:
 click **Bottom**, **Fig. 32**
 Tool body region:
 click **Battery Holder**
 check **Cut**
 under Parameters
Clearance .2
 click OK .

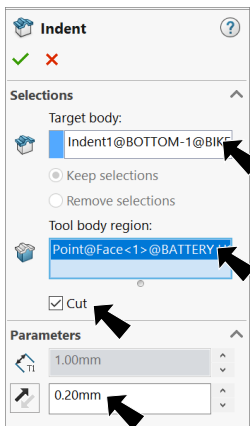
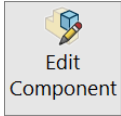


Fig. 31

Step 4. Click **Edit Component**



on the Features toolbar to exit.

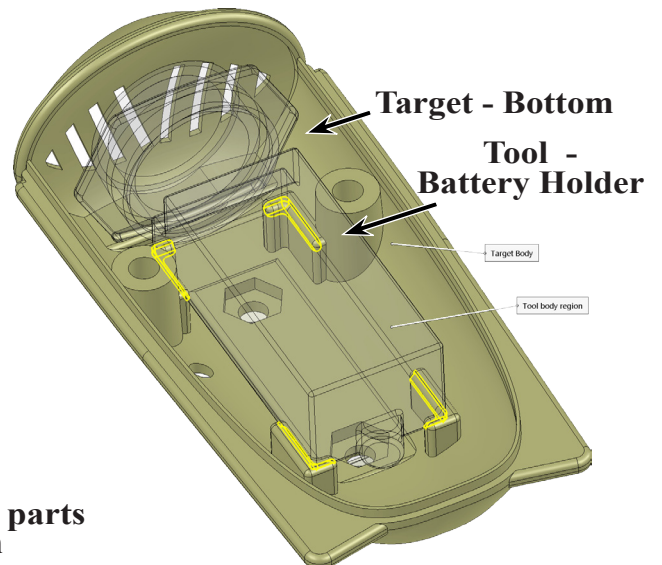


Fig. 32

Step 5. Save All  (Alt-F L).
 File Menu > Save All.

Intents with parts hidden

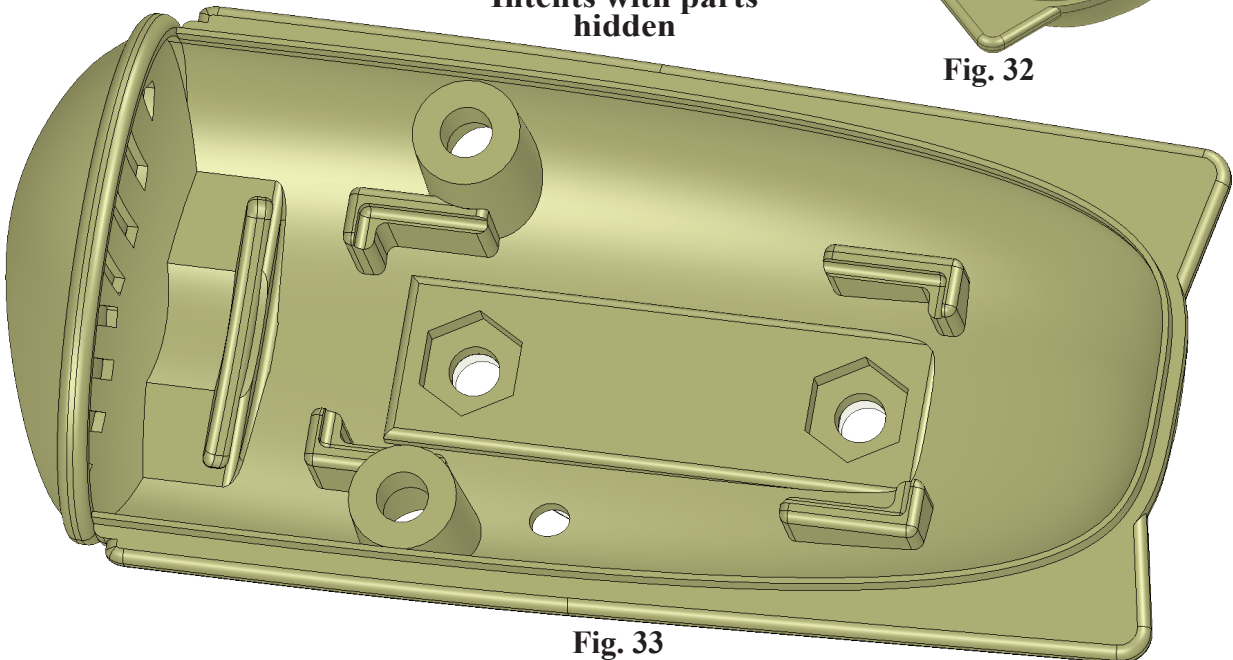


Fig. 33