

Battery Holder Assembly



A. Insert Battery Holder, Rivets and Spring.

Step 1. Click File Menu > New, click **Assembly** and OK.

Step 2. Click **Keep Visible**  in the Property Manager, **Fig. 1**.

Step 3. Click **Browse** in the Property Manager, **Fig. 1**.

Step 4. Select your **BATTERY HOLDER AA** file and click Open.


Step 5. Click OK  in the Property Manager. This will place the Battery Holder origin at the assembly origin and fix the position of the Battery Holder so that it cannot move. This fixed component should have a **(f)** before its name in the Feature Manager  **(f) BATTERY HOLDER<1>**.

Step 6. Click **Browse** in the Property Manager, **Fig. 1**.

Step 7. Select your **RIVET** file and click Open.

Step 8. Place **two Rivets** as positioned in **Fig. 2**.

Step 9. Browse and place **Spring**, **Fig. 2**.

Step 10. Click OK  in the Property Manager when done.

B. Save as "BATTERY HOLDER ASSEMBLY".

Step 1. Click File Menu > Save As.

Step 2. Key-in **BATTERY HOLDER ASSEMBLY** for the filename and press ENTER.

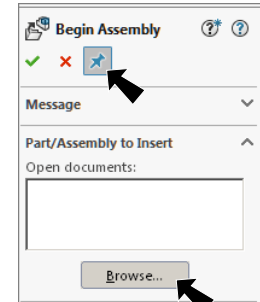


Fig. 1

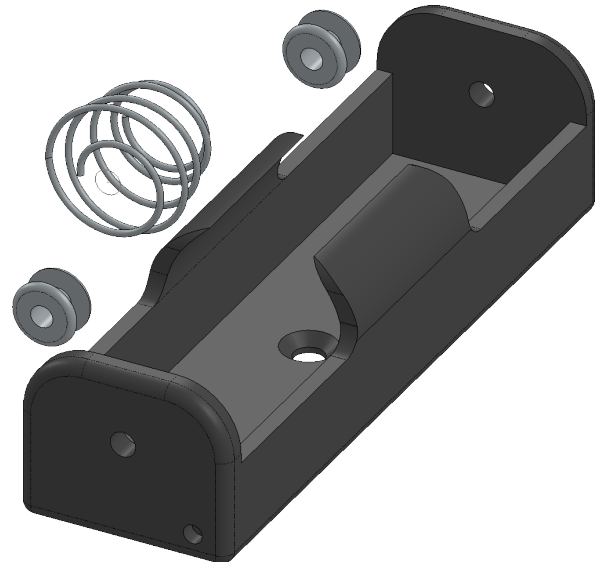


Fig. 2

C. Mate: Spring.

Step 1. Click **Mate**  on the Assembly toolbar.

Step 2. Click **circle Sketch in Spring** and **rear edge of front hole in Battery Holder**, Fig. 3.

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

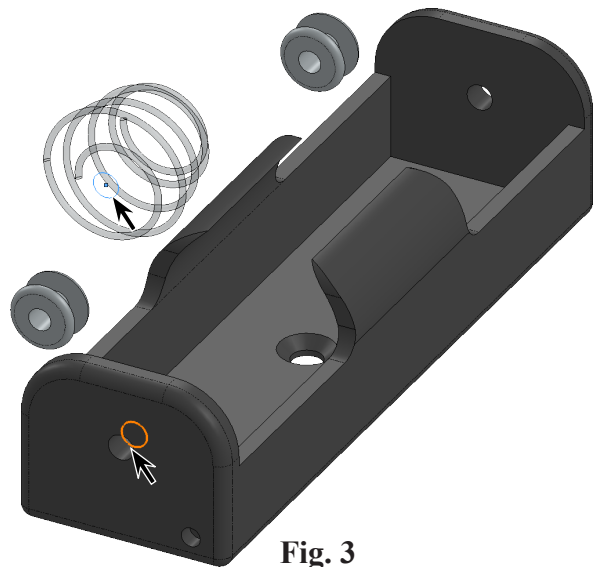


Fig. 3

D. Mate: Rivets.

Step 1. Click **rear edge inside Rivet cut** and **rear edge of front hole in Battery Holder**, Fig. 4.

Step 2. Click **Add/Finish Mate**  to add **Coincident** mate.

Step 3. Click **rear edge inside Rivet cut** and **rear edge of rear hole in Battery Holder**, Fig. 5.

Step 4. Click **Add/Finish Mate**  to add **Coincident** mate.

Step 5. Click **OK**  in the Property Manager.

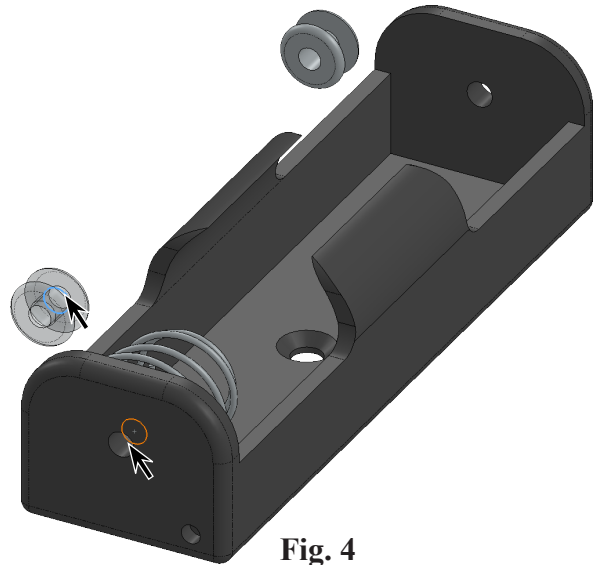



Fig. 4

E. Hide Sketch.

Step 1. **Hide Sketch2 circle** in Spring. To hide, click **Sketch2 circle** in graphics area and **Hide**  on the context toolbar, Fig. 6.

Step 2. Save. Use **Ctrl-S**.

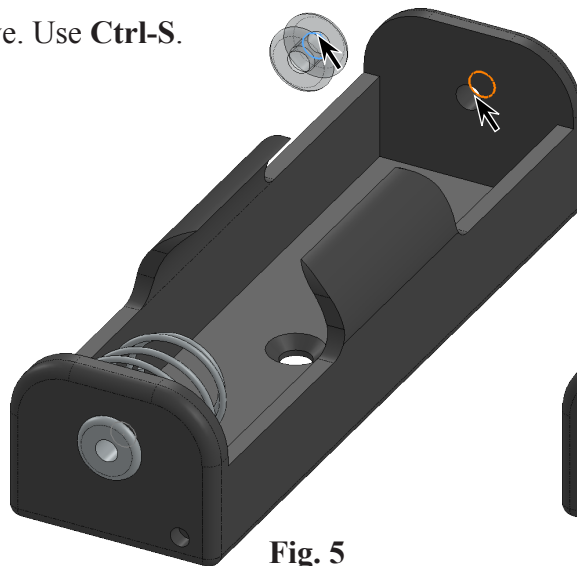


Fig. 5

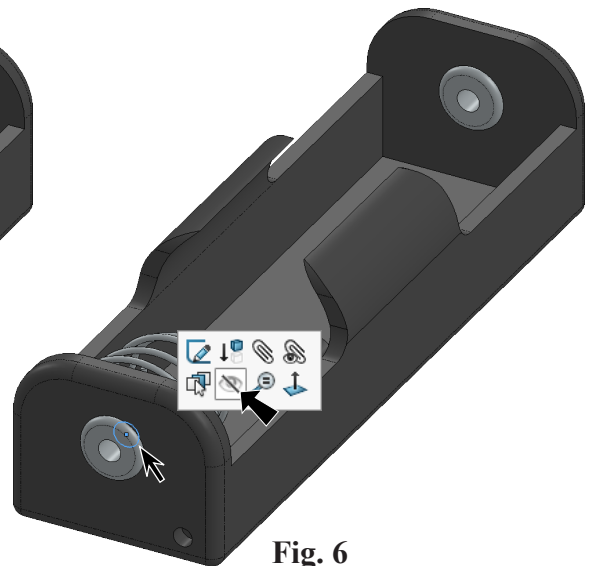
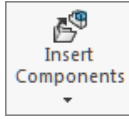


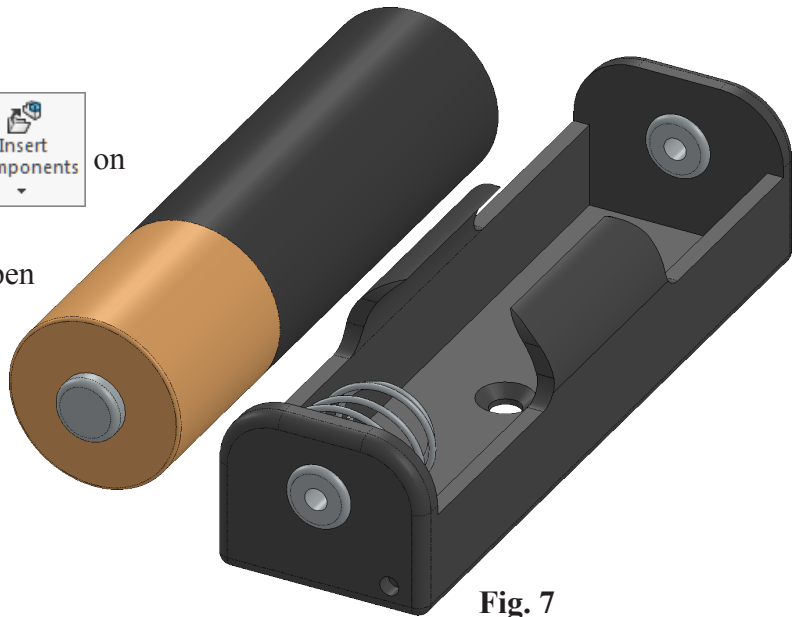
Fig. 6

F. Insert Battery AA.

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



Step 2. Select **BATTERY AA** file, Open and place Battery along side Holder, **Fig. 7**.



G. Mate: Battery.

Step 1. Click **Mate** on the Assembly toolbar.



Step 2. Click **edge of fillet on Battery terminal** and **edge of Fillet on rear Rivet**, **Fig. 8**.

Step 3. Click **Flip Alignment** in the Mate pop-up and **Add/Finish Mate** to add **Coincident** mate, **Fig. 9** and **Fig. 10**.



Step 4. Click **OK** in the Property Manager.

Step 5. Save. Use **Ctrl-S**.

Tip: To display the C-Points, use View Menu > Routing Points. If necessary Rebuild.



Fig. 9

To Rebuild, click **Rebuild** on the Standard toolbar.

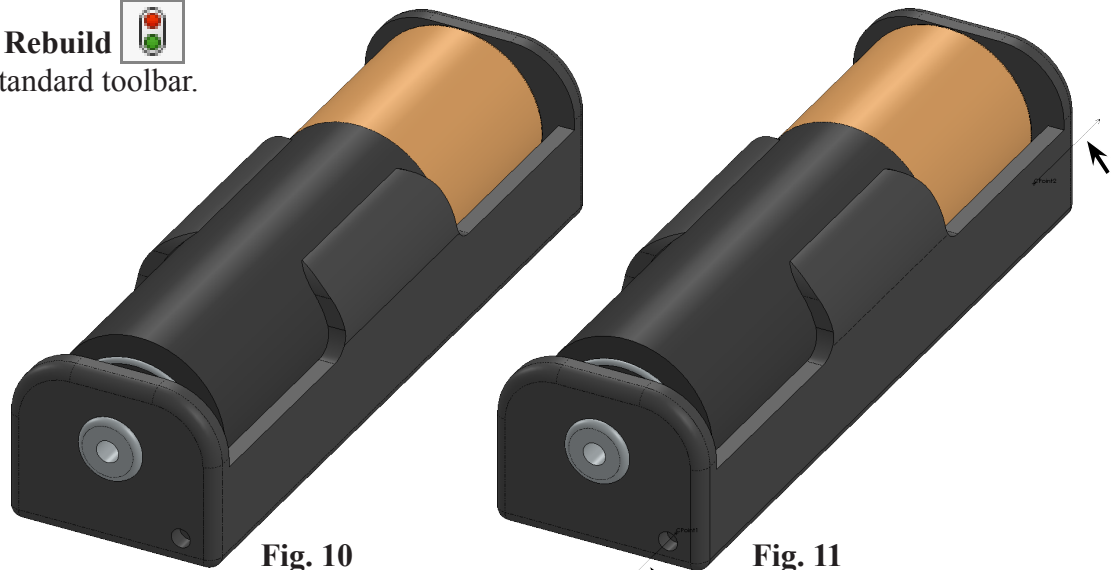


Fig. 10

Fig. 11