Battery Holder 2x AA Assembly

A. Insert Battery Holder and Springs.

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

Step 2. Select your **BATTERY HOLDER 2X AA** file and click Open from the Open dialog box.

Step 3. In the Begin Assembly Property Manager:

click **Keep Visible**, **Fig. 1**.

Click OK in the Property Manager, **Fig. 1**. This will place Battery Holder origin at the assembly origin and fix the position so Battery Holder cannot move. This fixed component should have a **(f)** before its name in the Feature Manager (f) BATTERY HOLDER 2X AA<1>.

Step 4. Click **Browse** in the Property Manager, **Fig. 1**.

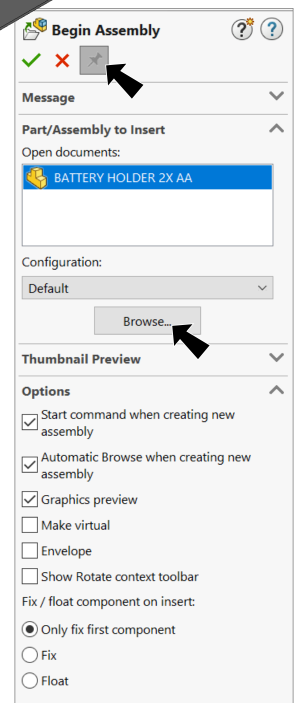


Fig. 1

Step 5. **Ctrl click SPRING and RIVET** files and click Open from the Open dialog box.

Step 6. Highlight the component under Open documents to place, **Fig. 2**. Place **two Springs** and a **Rivet**, **Fig. 3**.

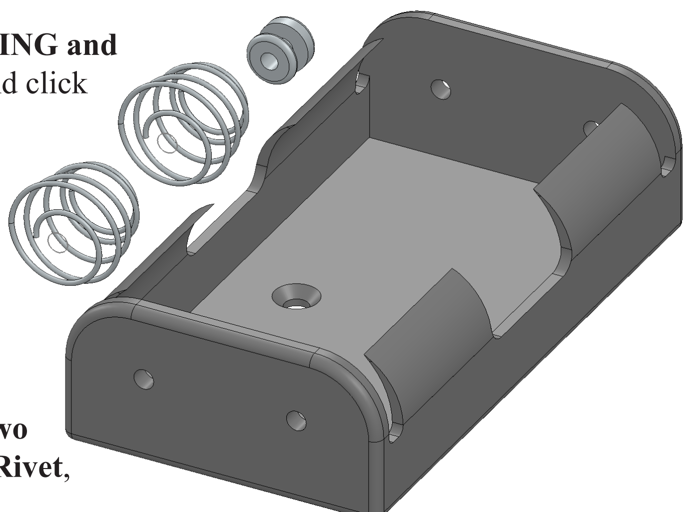


Fig. 2

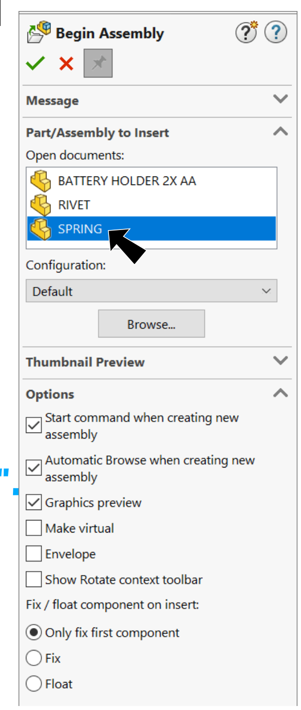


Fig. 3

Step 7. Click OK in the Property Manager when done.

B. Save as "BATTERY HOLDER 2X AA ASSEMBLY".

Step 1. Click File Menu > Save As.

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

C. Mate: Springs.

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

Step 2. Click **cylindrical edge of left rear Rivet hole on Battery Holder** and **circle sketch on a Spring, Fig. 4**.

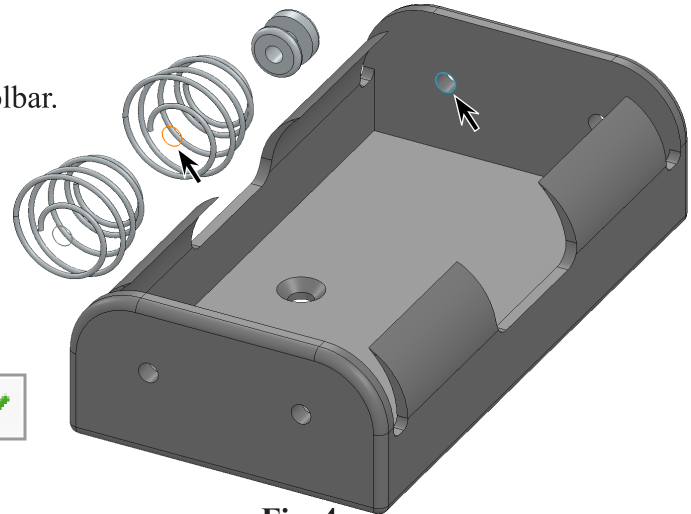


Fig. 4

Step 3. Click **Flip Alignment** in the Mate pop-up and Add/Finish Mate to add **Coincident** mate, **Fig. 5**.

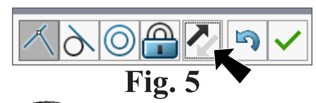
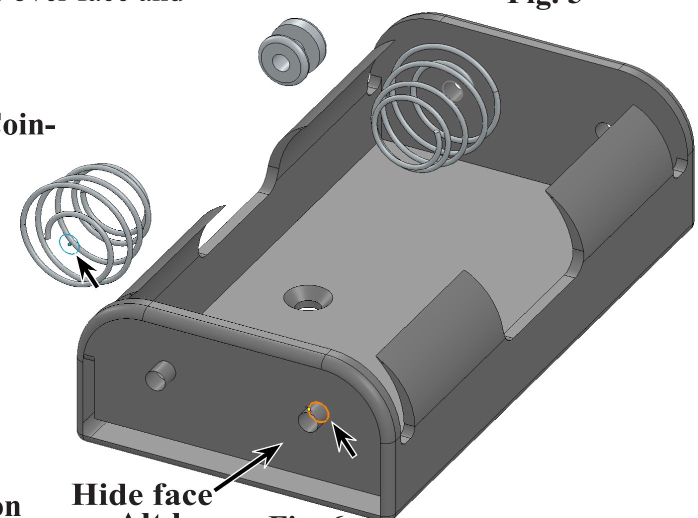


Fig. 5

Step 4. Click **circle sketch on other Spring, Fig. 6**.
Hide front face of Holder, **click rear cylindrical edge of right Rivet hole**. To hide face, hover cursor over face and press **Alt key**.

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



Hide face use Alt key

Fig. 6

D. Mate: Rivet.

Step 1. Click **cylindrical face of Rivet hole in Battery Holder** and a **cylindrical face of Rivet**, **Fig. 7**.

Step 2. Click **Flip Alignment** in the Mate pop-up and check **Lock Rotation** and Add/Finish Mate in Mate pop-up toolbar to add a **Concentric** mate, **Fig. 8**.

Fig. 8

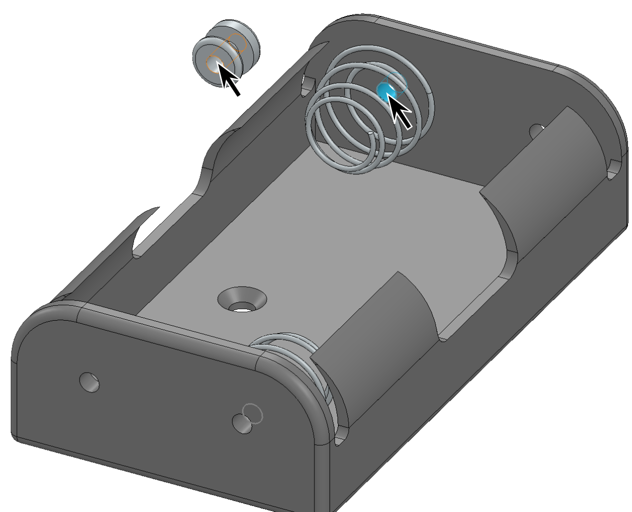


Fig. 7

Step 3. Click **inside rear face of Holder**, **hide fillet face of Rivet** and **click rear face of Rivet**, **Fig. 9**. To hide face, hover cursor over face and press **Alt key**.

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

Step 5. Click OK in the Property Manager.

Step 6. Save **(Ctrl-S)**.

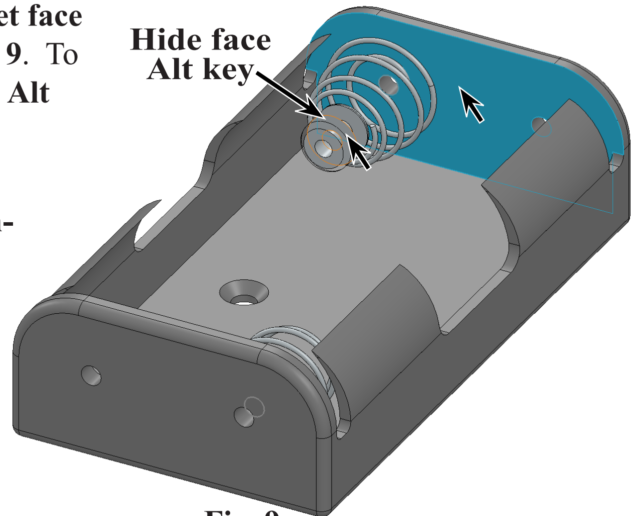


Fig. 9

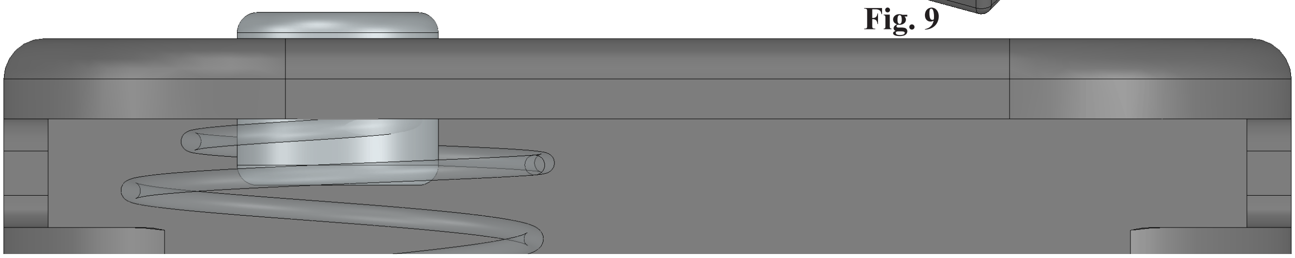


Fig. 10

E. Mirror1 Rivet Front Plane.

Step 1. **Ctrl click Front Plane** and **Rivet** component in the Feature Manager to select plane and component, **Fig. 11**.

Step 2. Click **Mirror Components** Mirror Components in the **Linear Component Pattern flyout** Linear Component Pattern on the Assembly toolbar.

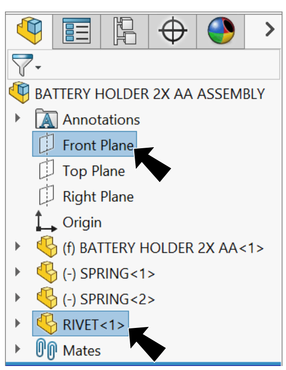


Fig. 11

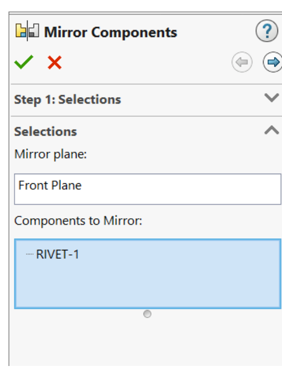


Fig. 12

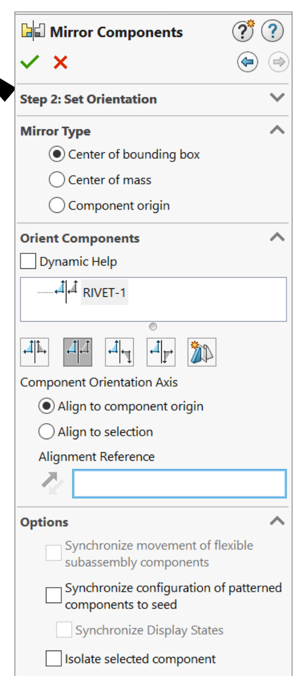


Fig. 13

Step 4. In the Mirror Property Manager:
Step 1: Selections
all were preselected
click **Next** ,
Fig. 12.

Step 3. In the Mirror Components Property Manager click OK .

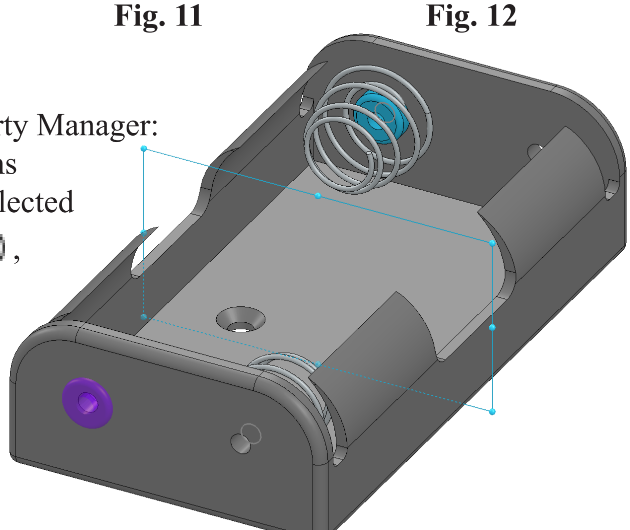


Fig. 14

F. Insert Battery AA.

Step 1. **Hide Sketch2 in the Spring**. To hide, click **Sketch2 of a Spring** in the graphics area and **Hide** on the context toolbar, **Fig. 15**.

Step 2. Click **Insert Components** (Insert Components) on the Assembly toolbar.

Step 3. Select **BATTERY AA** file and click Open.

Step 4. Place Battery along side Holder, **Fig. 16**.

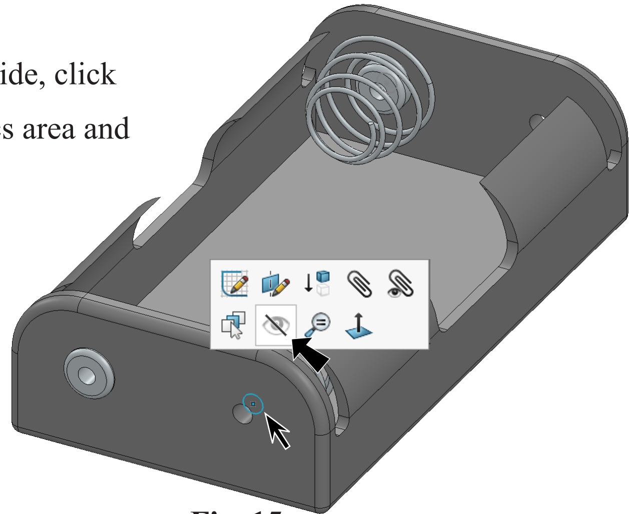


Fig. 15

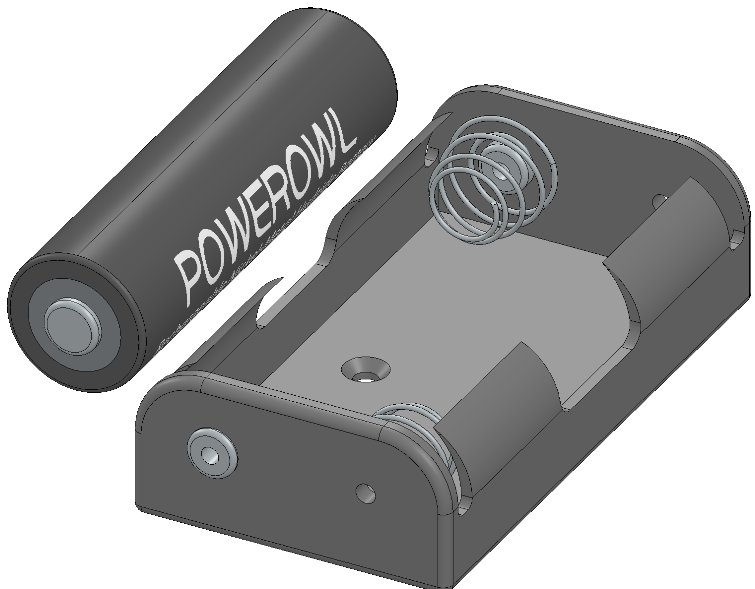


Fig. 16

G. Mate: Battery.

Step 1. Click **Front Plane** in the Feature Manager and **Mate** on the context toolbar, **Fig. 17**.

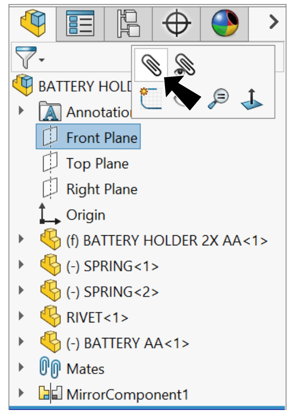


Fig. 17

Step 2. Expand the flyout Feature Manager design tree, expand **BATTERY AA** and click **Front Plane**, **Fig. 18**.

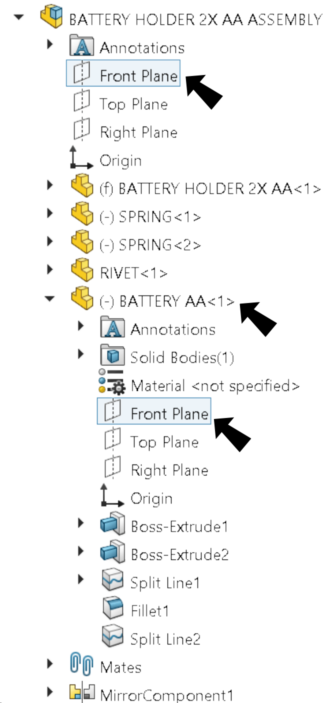


Fig. 18

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

Step 4. Click a **cylindrical face of Rivet** and a **cylindrical face of Battery**, **Fig. 19**.

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

Step 6. Click OK in the Property Manager.

Step 7. **Grab the Battery and rotate to see decal**, **Fig. 20**.

Step 8. Save **(Ctrl-S)**.

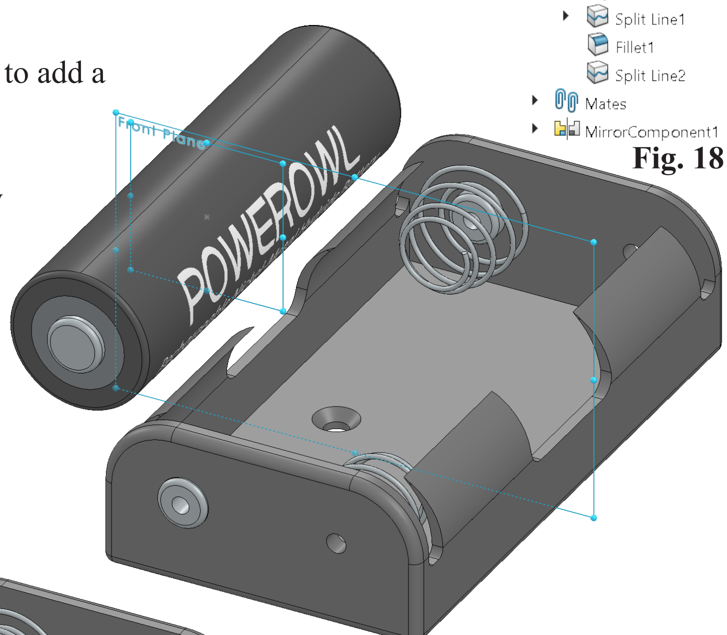


Fig. 19

Fig. 20

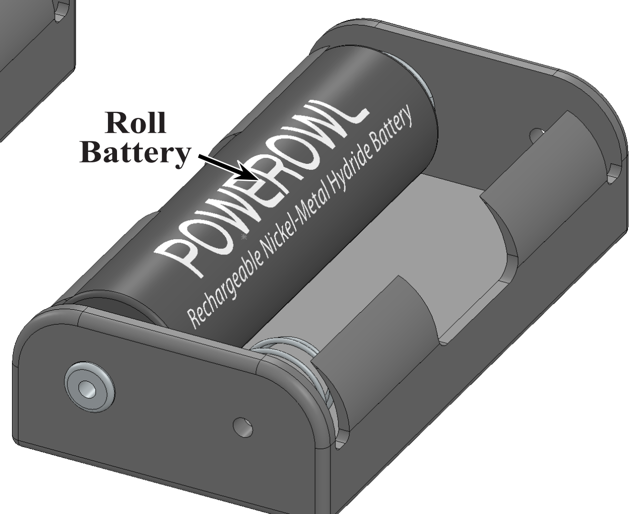


Fig. 21

H. Mirror2 Both Rivets and Battery on Right Plane.

Step 1. Click **Top** on the Standard Views toolbar. (**Ctrl-5**)

Step 2. **Ctrl click Right Plane** **both Rivets and Battery** in the Feature Manager to select plane and components, **Fig. 22**.

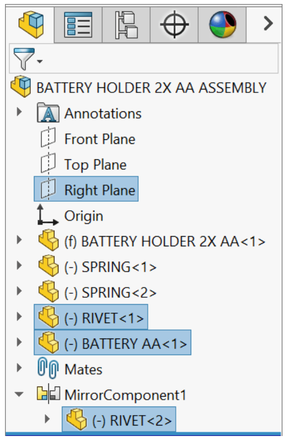


Fig. 22

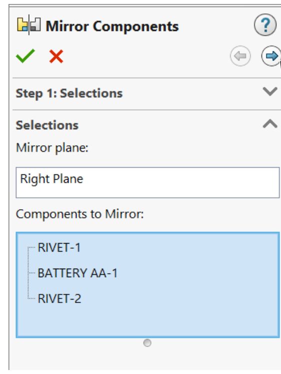


Fig. 23

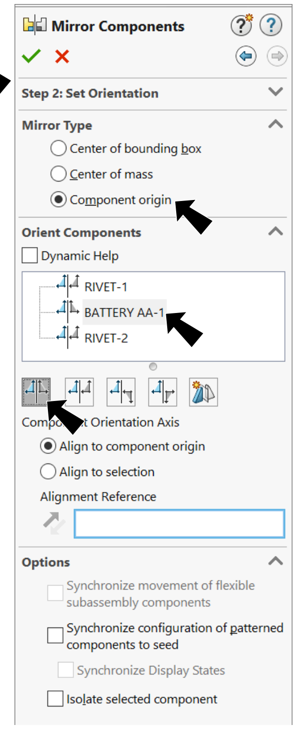


Fig. 24

Step 3. Click **Mirror Components** (Mirror Components) in the **Linear Component Pattern flyout** (Linear Component Pattern) on the Assembly toolbar.

Step 4. In the Mirror Property Manager:
  Step 1: Selections
    all were preselected
    click **Next** , **Fig. 23**.

Step 5. Still in Mirror Property Manager:
  Step 2: Set Orientation
    under Mirror Type, **Fig. 24**
      select **Component origin**
    under Orient Components
      click **BATTERY AA-1**
      select **X mirrored Y mirrored**
  click OK .

Step 6. Save (**Ctrl-S**).

Termial to rear

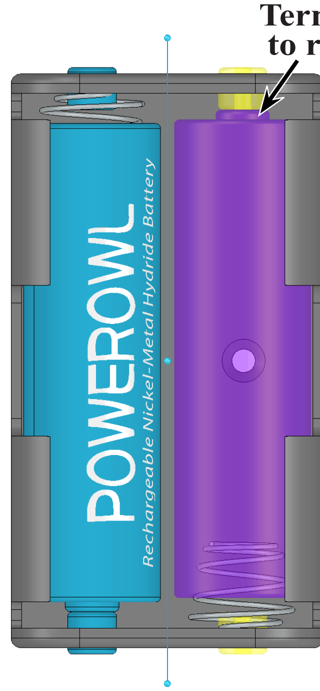


Fig. 25

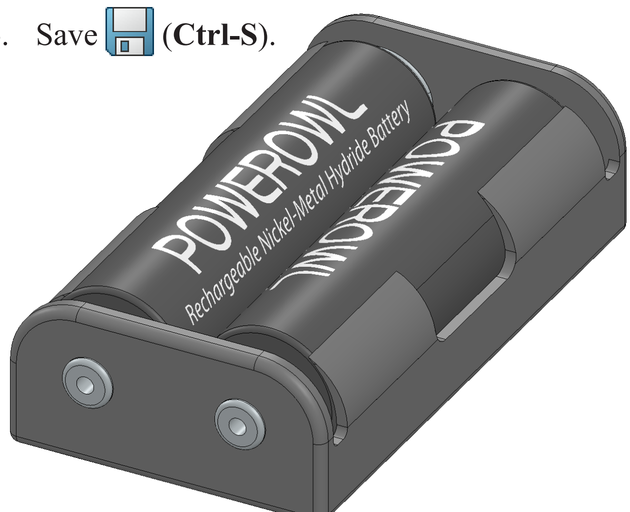


Fig. 26