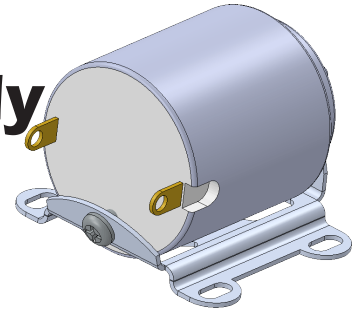


Motor Sub Assembly





A. Insert MMB and Motor.

Step 1. Click File Menu > New, click **Assembly Metric** 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 **MOTOR MOUNTING BRACKET** file and click Open.

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

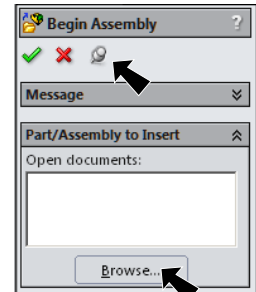



Fig. 1

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

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

Step 8. Place Motor as positioned in **Fig. 2**.

Step 9. Click OK  in the Property Manager when done.

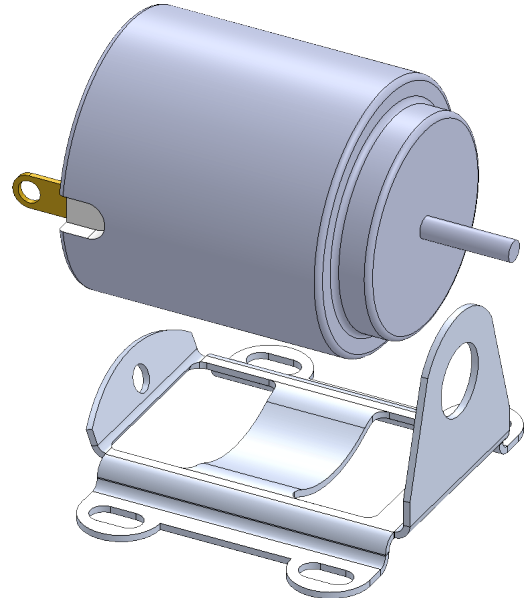


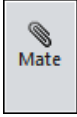
Fig. 2

B. Save as "MOTOR ASSEMBLY".

Step 1. Click File Menu > Save As.

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

C. Mate: Motor.

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

Step 2. Click **side face of Motor**, Fig. 3.

Step 3. Rotate view to view **inside face of MMB**, Fig. 4.
To rotate, hold down middle mouse button (wheel) and drag.

Step 4. Click **inside side face of MMB**, Fig. 4.

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

Step 6. Click **cylindrical face of Motor** and **cylindrical formed face in MMB**, Fig. 5.

Step 7. Click Add/Finish Mate  to add **Concentric** mate, Fig. 6.

Step 8. Click OK  in the Property Manager.

Step 9. Save. Use **Ctrl-S**.

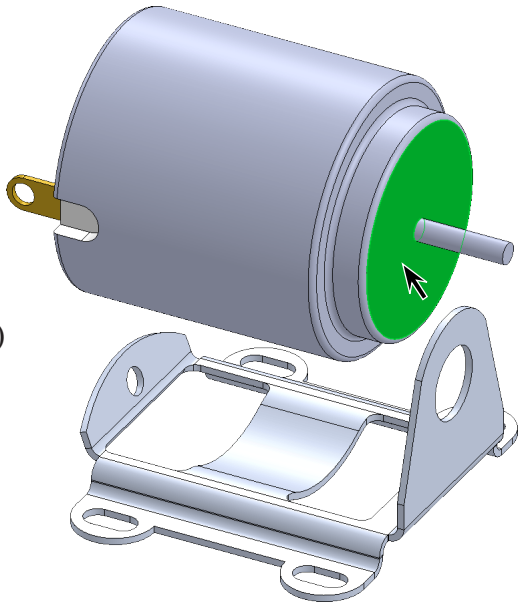


Fig. 3

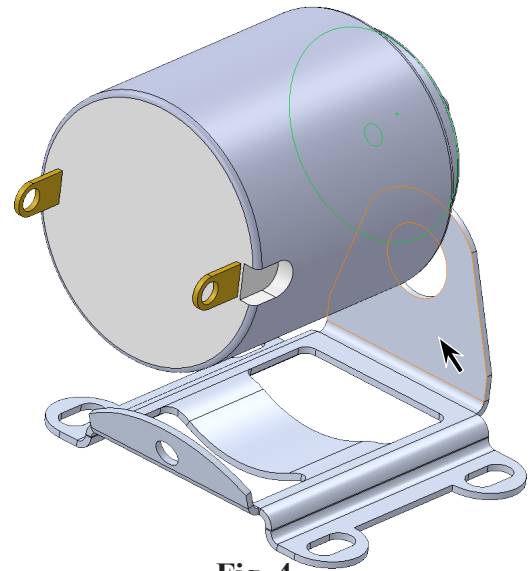


Fig. 4

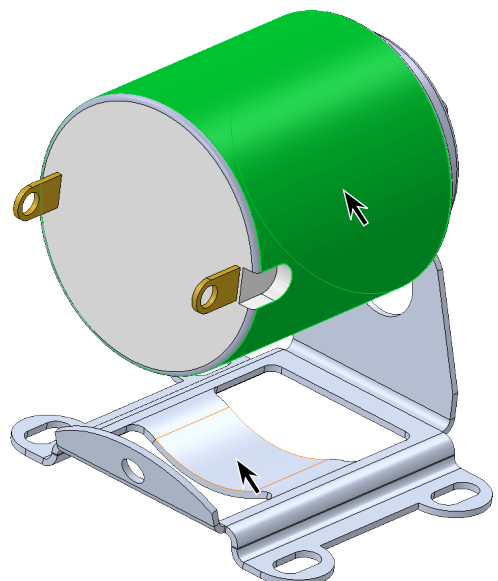


Fig. 5

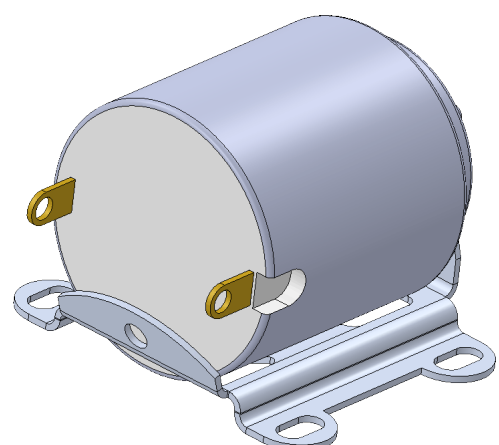


Fig. 6


D. Insert Self Tapping Screw.

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

Step 2. Click **Browse** in the Property Manager.

Step 3. Select **Self Tapping Screw** file and click Open.

Step 4. Position cursor **near rear screw hole** in MMB, **Fig. 7**. When Screw snaps into place and cursor changes to indicate a Concentric and Coincident

mate , click to release Screw.

Step 5. Click **Trimetric**  on the Standard Views toolbar.

Step 6. Save. Use **Ctrl-S**.

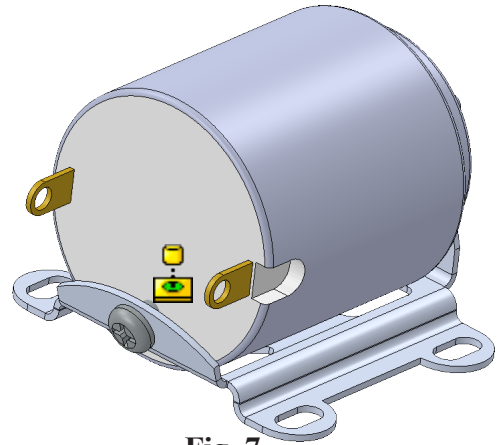


Fig. 7