

Delta Dart Propeller Assembly



A. Insert Parts.

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 **SOCKET** file and click Open.

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

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

Step 7. Select your **PROP WIRE** file and click Open.

Step 8. Click approximately where the Prop Wire is positioned in **Fig. 2**.

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



Fig. 1

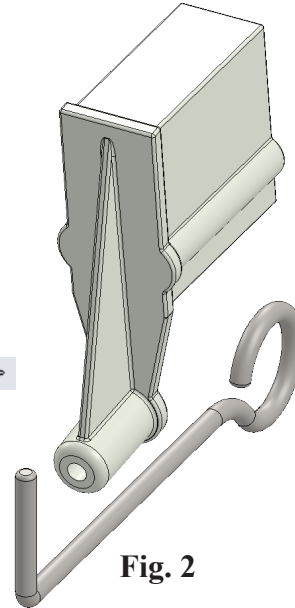


Fig. 2

B. Save as "PROPELLER ASSEMBLY".

Step 1. Click File Menu > Save As.

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

C. Mate: Socket and Prop Wire.

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

Step 2. Click **inside cylindrical face of Socket hole** and **cylindrical face of horizontal section of Wire**, **Fig. 3**.

Click Add/Finish Mate  to add **Concentric mate**, **Fig. 4**.

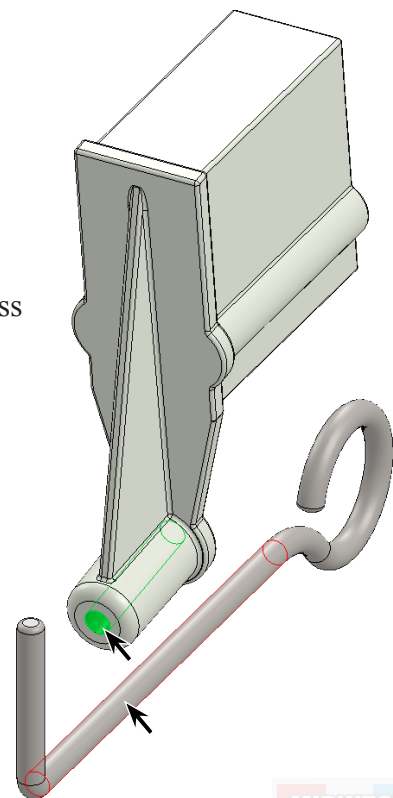


Fig. 3





Fig. 4



Step 3. Expand the Design Tree (click +) in the top left corner of the graphics area, **Fig. 5**.

Step 4. Expand **SOCKET** and click **Plane1** , **Fig. 5**.

Step 5. Expand **PROP WIRE** and click **Front Plane** , **Fig. 5**.

Step 6. Click **Distance**  in Mate pop-up, **Fig. 6**. Set **distance 8.5** and click Add/Finish Mate  to add the **Distance** mate.

Step 7. Click OK  in the Property Manager.



Fig. 6

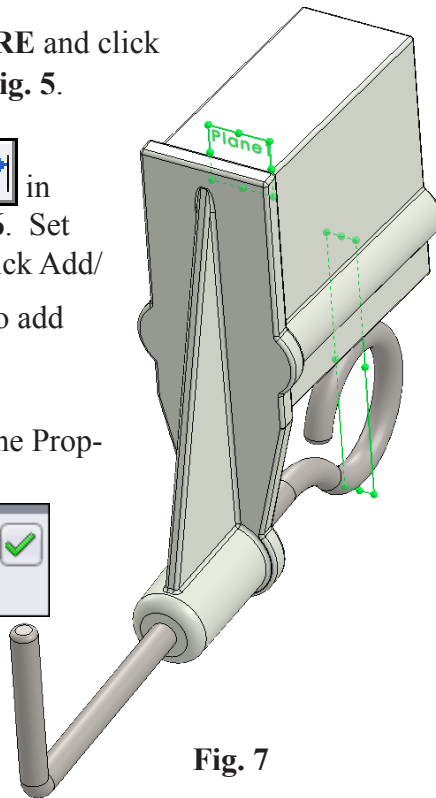


Fig. 7

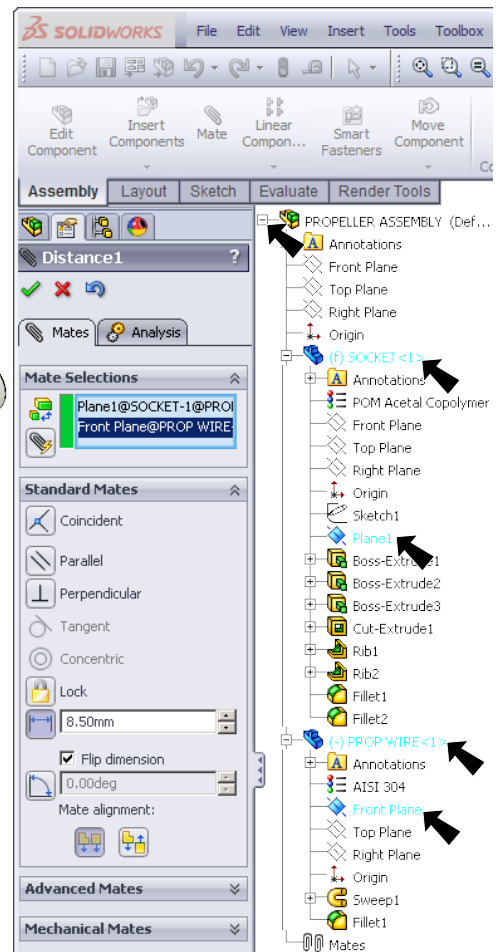


Fig. 5

D. Insert Propeller.

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

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

Step 3. Select **PROPELLER** file and click Open.

Step 4. Place Propeller as positioned in **Fig. 8**.

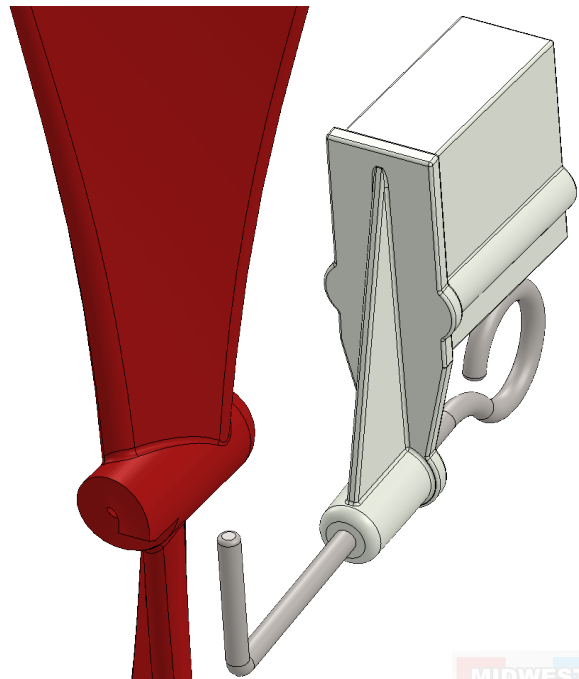



Fig. 8



E. Mate: Propeller.




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

Step 2. Rotate view slight to view **inside cylindrical face of Propeller hole** as shown in **Fig. 9**. Hold down middle mouse button (wheel) and drag.

Step 3. Click **inside cylindrical face of Propeller hole** and **cylindrical face of horizontal section of Wire**, **Fig. 9**. Click Add/Finish Mate  to add **Concentric** mate.

Step 4. Click the **front face of Socket hub**, **Fig. 10**.

Step 5. Expand the Design Tree, expand **PROPELLER** and click **Front Plane** , **Fig. 11**.

Step 6. Click **Distance**  in Mate pop-up, **Fig. 12**. Set **distance 5.5** and click Add/Finish Mate  to add the **Distance** mate. Click **Right**  on the Standard Views toolbar (**Ctrl-4**) and confirm position of Propeller, **Fig. 13**.

Step 7. Click OK  in the Property Manager.

Step 8. Save. Use **Ctrl-S**.

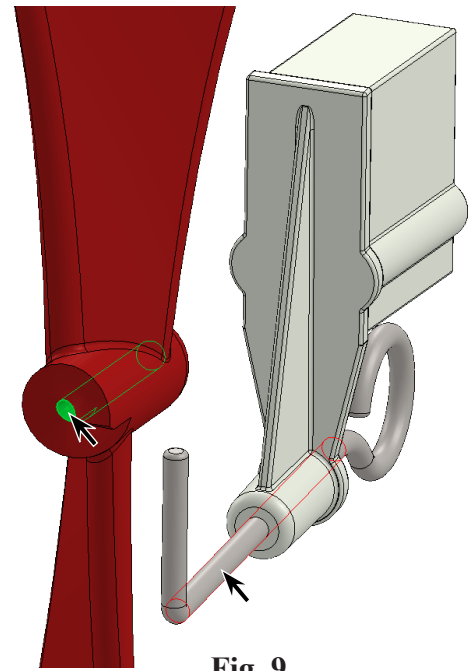


Fig. 9

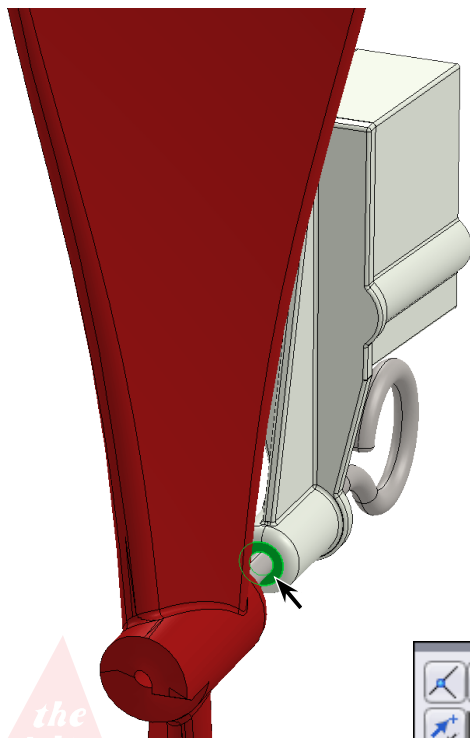


Fig. 10

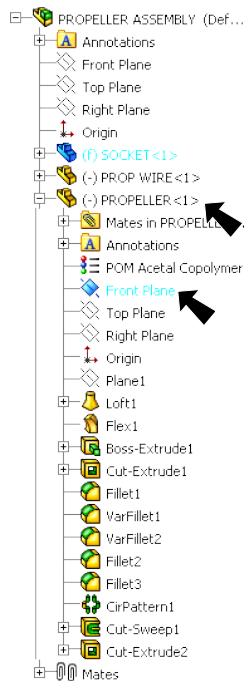


Fig. 11



Fig. 12

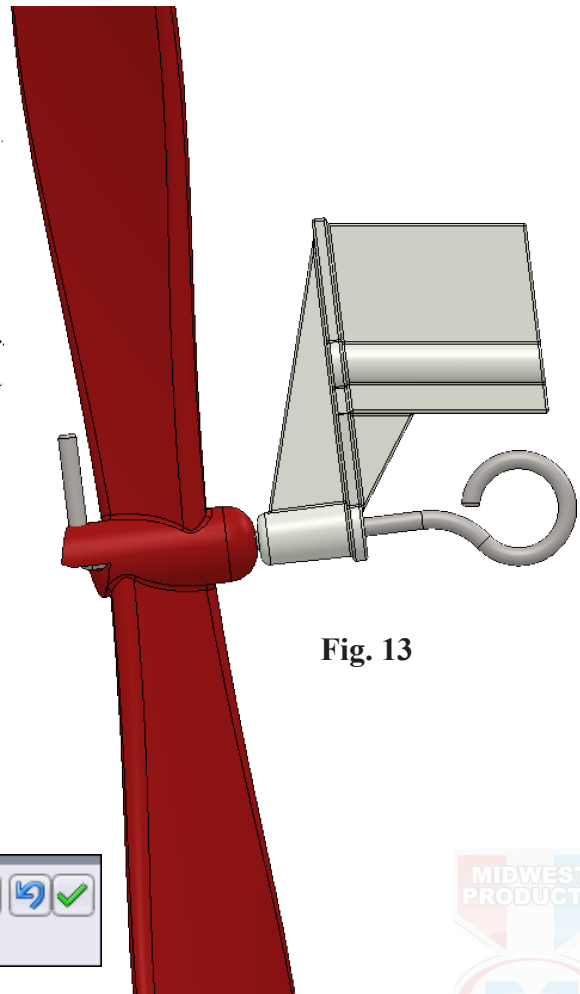


Fig. 13