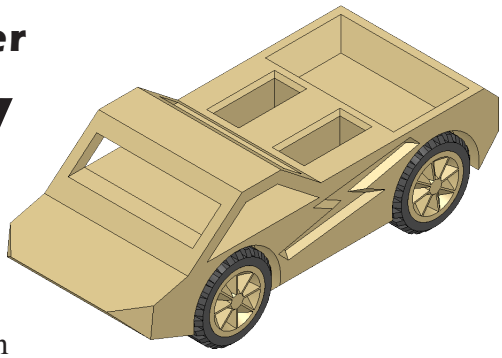
Chapter 3

The Landmaster
Assembly



A. Insert Body and Wheel.

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

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

Step 3. In the Begin Assembly Property Manager set:

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

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

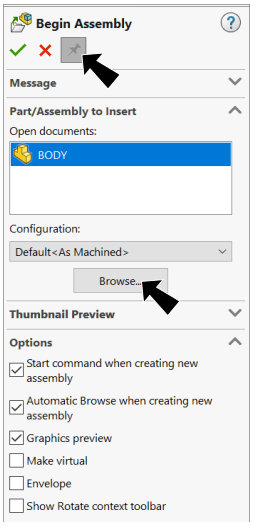


Fig. 1

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

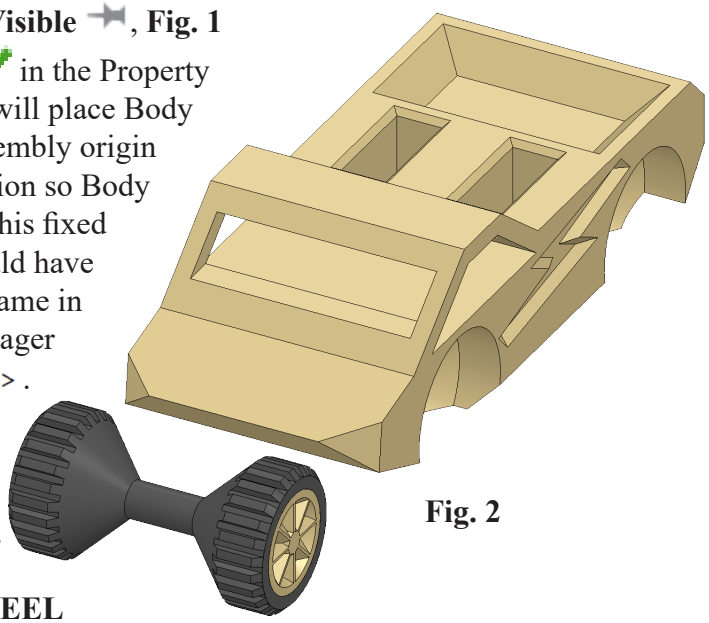


Fig. 2

Step 5. Select your **WHEEL** file and click Open.

Step 6. Click approximately where Wheel is positioned in **Fig. 2**.

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

B. Save as "LANDMASTER ASSEMBLY".

Step 1. Click File Menu > Save As.

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

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C. Mate: Wheel.

Step 1. Click **Isometric** on the Standard Views toolbar. (**Ctrl-7**)

Step 2. Click **Right Plane** in the Feature Manager and **Mate** on the context toolbar, **Fig. 3**.

Step 3. Expand the flyout Feature Manager design tree, expand **Wheel** and click **Right Plane**, **Fig. 4**.

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

Step 5. Click **cylindrical face of front Wheel hole in Body** and a **cylindrical face of Wheel**, **Fig. 6**.

Step 6. Click Add/Finish Mate to add a **Concentric** mate.

Step 7. Click OK in the Property Manager.

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

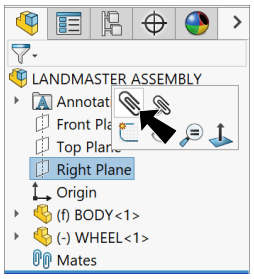

Fig. 3

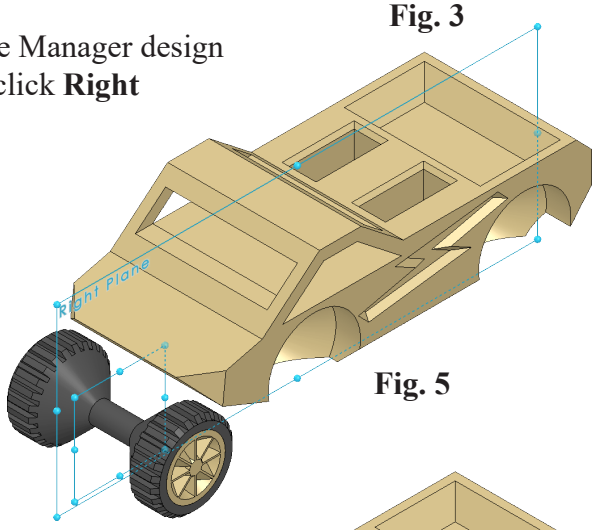

Fig. 5

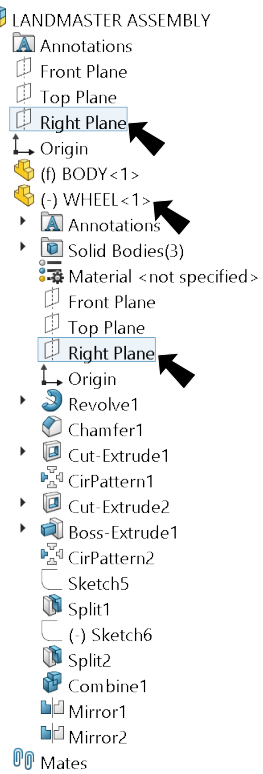

Fig. 4

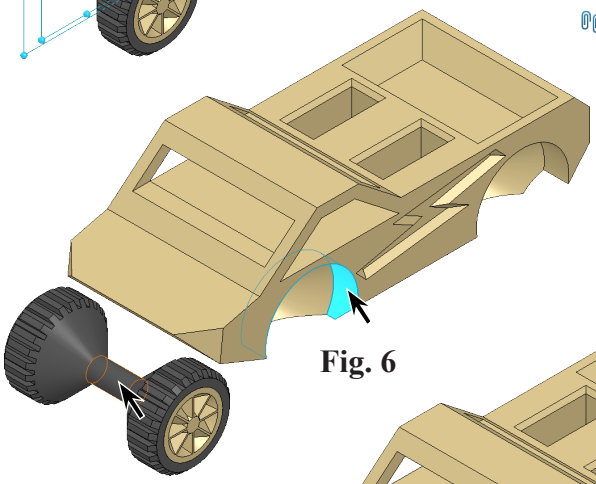

Fig. 6

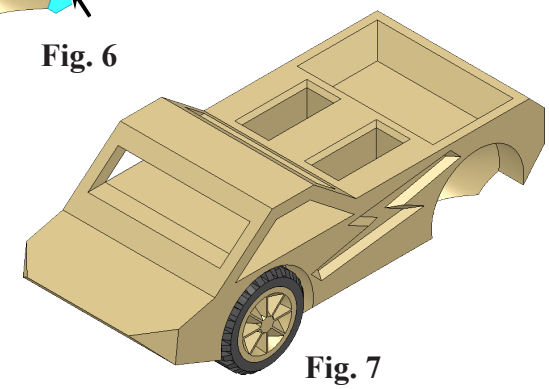

Fig. 7

D. Copy with Mates Wheel.

Step 1. **Right click Wheel** in the Feature Manager and click **Copy with Mates** on menu, **Fig. 8**.

Step 2. In the Copy with Mates Property Manager:
Step 1: Select Component, **Fig. 9**
Preselected
click **Next**

Step 3. Still in Copy with Mates Property Manager:
Step 2: Mates, **Fig. 10**
under Mates
Coincident1 check **Repeat**
Concentric1 click **cylindrical face of rear Wheel hole**, **Fig. 11**
click OK and click Cancel.

Step 4. Save (**Ctrl-S**).

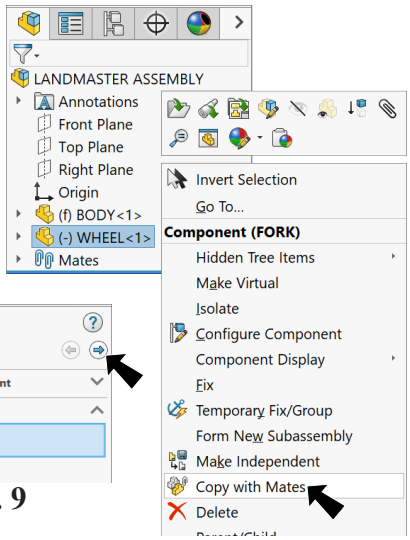

Fig. 8

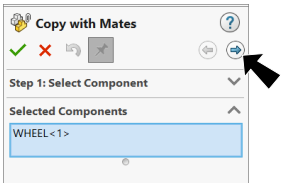

Fig. 9

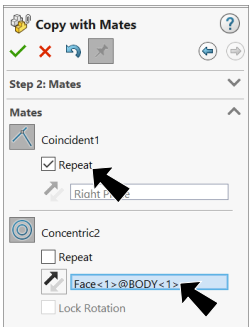

Fig. 10

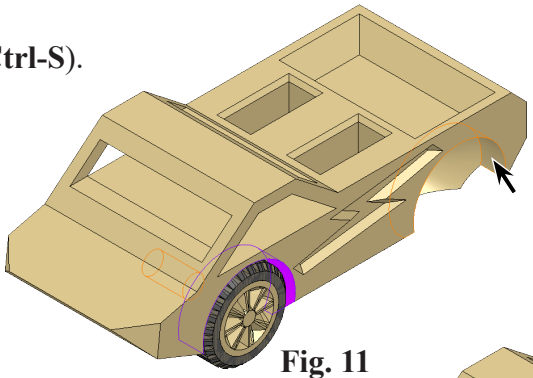

Fig. 11

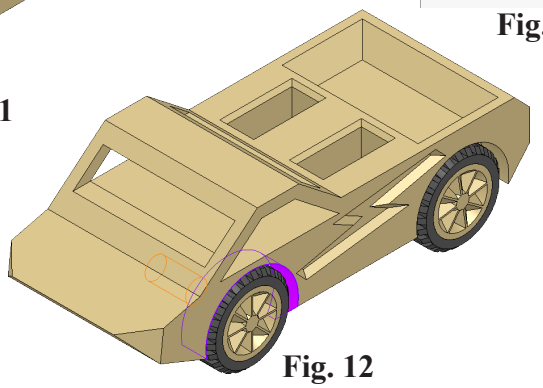

Fig. 12