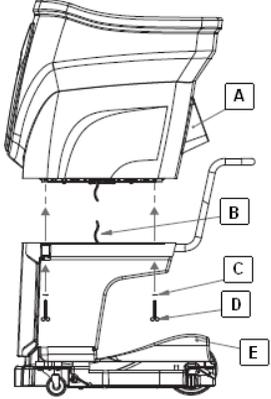
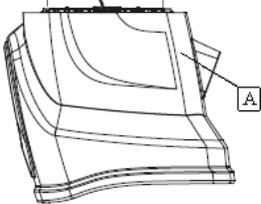
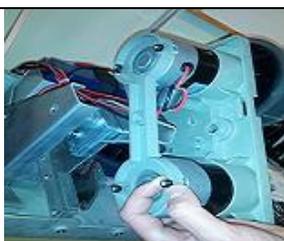


Replacing and Installing a Server Motor

Phenom 1 & 2

Step	Description	Tools	Picture
1	<p>Disconnecting The Phenom Hopper Unit and Base Unit.</p> <p>Step 1.) Unscrew the 4 wing screws (D) and washers (C) from the bottom of the Base Unit (E). <i>(Pull these items out and set them aside for later use.)</i></p> <p>Step 2.) Disconnect the Wire Connector (B) allowing you to completely separate the Hopper Unit (A) from the Base Unit (E). Use 2 people to carefully set the Hopper Unit (A) upside down, so that the bottom plate is exposed.</p>		 <p>Lobster Phenom with labeled components.</p> <p>(Base Unit separate from Hopper Unit).</p>  <p>Top Portion of Hopper Unit upside down with bottom plate exposed.</p>
2	<p>Removing The Hopper Unit Casing From The Internal Platform Assembly</p> <p>Step 1.) CAREFULLY remove the 10 screws connecting the Base Platform to the Hopper Unit. <i>(The Base Platform Pins are very sensitive, use caution when unscrewing these screws, use adequate pressure.)</i></p> <p>Step 2.) Remove the 4 black screws fastening the control board to the Hopper Unit. Unplug the Feed Motor wire (J15), from the board. (Marked in Red on diagram A.) also disconnect the ground wires that are screwed into MP4.</p>		

Replacing and Installing a Server Motor

	<p>Step 3.) Lift the Platform piece out of the Hopper Unit by getting a good grip in the center of the platform, while feeding the control board upwards carefully. Make sure the board wires do not get caught on anything on the way up.</p> <p>Step 4.) Place the platform down with the server wheel assembly facing upwards. Disconnect the corresponding motor from the board to be replaced (Each motor has 2 cables, a red and a black cable). The cable will be labeled either "Top Serve or Bott Serve".</p>		
<p>3</p>	<p>Remove both server wheels by removing the set screws (one on each wheel) with a 1/8" Allen wrench. Set screws are located on the right side center shaft.</p>		 <p>Server wheel & set screw</p>
<p>4</p>	<p>Remove yoke bolt. This is the large bolt that passes through the yoke and support arms (Davit). You will need two 9/16 wrenches (One for each side of the Yoke bolt).</p>		 <p>Yoke bolt w/washer and spacer</p>
<p>5</p>	<p>Remove the 4 black server motor mounting nuts from plastic motor mount. Ensure that the (2) mounting nuts from each motor is removed so that proper positioning can take place. Set motor mount aside.</p>		 <p>Server Motor Mounting Nuts</p>

Replacing and Installing a Server Motor

<p>6</p>	<p>Remove the (3) server motor mounting screws from the yoke that corresponds with the server motor that is being replaced. Pull damaged motor off of yoke.</p>		 <p>Server Motor Mounting Screws</p>
<p>7</p>	<p>Cut the zip-tie(s) that are securing the server motor wires.</p>		
<p>8</p>	<p>Insert new motor into yoke. The existing motor screws should be visible through the holes in the yoke to ensure proper alignment.</p>		 <p>Server Motor Holes in Yoke</p>
<p>10</p>	<p>Insert the (3) motor mounting screws into the yoke to attach motor. Ensure all (3) screws are in each of the screw holes before tightening.</p>		 <p>Server Motor Holes in Yoke</p>

Replacing and Installing a Server Motor

11

Reattach motor mount using the (4) motor mount nuts ensuring all nuts are "snug" tight. **Caution- Do Not Overtighten, this will cause the motor mount to crack or break.**



Reattach Motor Mount

12

Insert the white plastic yoke spacer into the center hole of the motor mount.



Insert Large Plastic Spacer

13

Align the yoke assembly so that the yoke spacer sits in between the metal support arms (Davit)



Insert Large Plastic Spacer

Replacing and Installing a Server Motor

14

Be sure to place 3 washers at the end of the plastics spacer before pushing the bolt through to the other side of the davit.



Slide yoke bolt throughlong plastic spacer and davit

15

Push the Yoke Bolt through the yoke support arm, large plastic spacer, and into the second support arm (Davit) and place the washer over the end of the yoke bolt. Tighten the yoke bolt nut until "snug". Do not over tighten.



Yoke Bolt through Support Arms and Attach Nut

Putting the Phenom Hopper Unit Case back onto the Internal Platform Assembly.

Step 1.) Put the Upper Hopper Unit (A) upside-down (where the top of the hopper is resting on the ground), and carefully flip the Internal Platform Assembly with the Control Panel, into the bottom of the Upper Hopper Unit. With the server wheels facing the black face plate. Reach in threw the control panel opening, and direct the panel until it is hanging outside of the rear of the Upper Hopper Unit.

Step 2.) CAREFULLY screw in the 10 screws connecting the Base Platform to the Hopper Unit. *(The Base Platform Pims are very sensitive, use caution when screwing in these screws, apply adequate force.)*

Step 2.) Plug in the Feed Motor wire and screw in the ground wire (Diagram **D.**) on the control panel. Using the 4 black screws



Phenom Internal Platform
Diagram **D.**)

Replacing and Installing a Server Motor

fastening the control board to the Hopper Upper unit.

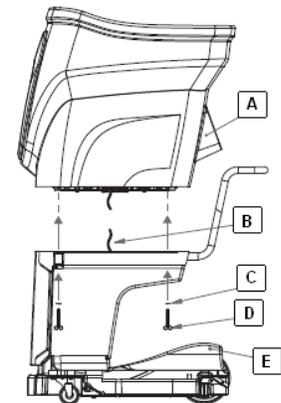
Remember to re connect any remote cables if this applies to your machine.

Reconnecting The Hopper Unit To The Base Unit.

Step 1.) Using two people, lift the Hopper Unit (A) and hold it above the Base Unit (E). Connect the Wire Connector (B). Now CAREFULLY lower the Hopper Unit onto the Base Unit. There are 4 metal extensions on the bottom of the Hopper Unit (A) that will fit into the 4 holes on the Base Unit (B). They will "click" into place when properly aligned.

Step 2.) Use the 4 wings provided (D), and the 4 washes provided (C) to secure the Base Unit to the Hopper Unit from the underside, as depicted in the picture to the right.

Make sure the 4 Wings are finger tightened, and do not over tighten, for over tightening these Wings can cause and Over-Current Sweep Error.



Phenom Hopper Unit, and Base Unit