Ball Feed Motor Replacement Instructions

For Butterfly Amicus Models Basic, Advance, & Professional

Pull all cables from the machine and remove the robot from your table. A Phillips #1 screwdriver and soldering iron are needed for the replacement.

1. Remove the Head from the robot by disconnecting the Head Cable, loosening the large Black Knob on the rear of the Ball Tube, and pulling up on the Head.

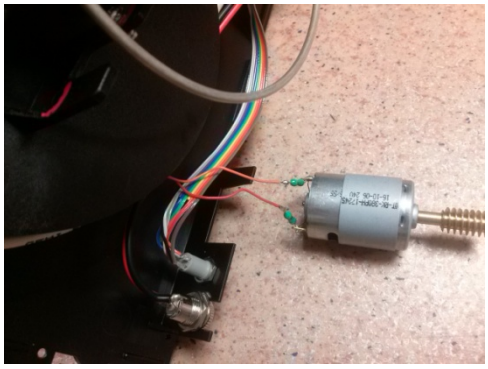
2. Disconnect the Velcro from the Base. (Look carefully how it was originally fixed.)

3. Unscrew all 16 small screws found along the edges of the cover (8 pcs silver and 8 pcs black). It is recommended to leave the silver screws hanging in the Velcro for easier re-assembly.

4. Remove the Base Top and turn it over.

5. Unsolder both electric wires from the resistors on the motor. Leave the resistors and capacitor on the motor. (The orange wire goes to the terminal with a red spot next to it.)

6. Unscrew the 2 screws holding the motor onto the housing.



7. Replace the old motor with the new one and fasten it back in place by partially tightening the 2 screws. Before final tightening of the screws, push the motor as far away from the large Ball Feed Gear as possible. This is important, as you do not want the brass gear on the motor's shaft and the large black plastic gear to mesh too tightly.

8. Solder back the wires to the motor and be careful not to change poles. (The orange wire must be soldered to the pole with a red spot next to it.)

9. Reattach the Base Top to the Base Bottom with 1-2 screws on each side. Attach the Head and plug in all the cables and activate ball feed (Ball/Min).

10. If the Ball Stirring Springs begin rotating when ball feed is activated, remove the Head and refasten all the screws in their original places. Then reattach the net to the Base with the Velcro, once again attach the Head, and reposition the robot onto the end of the table.

If Ball Stirring Springs do not rotate, remove the Head and Base Top and re-examine your work, making sure the brass and plastic gears are not meshed too tightly together, the wires are securely soldered to the motor, and nothing else is preventing the ball feed mechanism from turning.