Model EL8500 Series
Bagless Upright

Assembly/Disassembly Guide
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Parts Removal / Installation Guide

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## Tools Required:

- Safety glasses
- Clean Pad or soft cloth (to prevent scratching of plastic parts during repair)
- Needle nose pliers
- Phillips Screw Driver
- Flat Tip Screw Driver
- Long Flat Tip Screw Driver (12 inches)
- Torx-20 screwdriver
- Wire cutter pliers
- Wire nut crimpers

**Note:** Before any repair work is performed make sure that the unit is unplugged.
A. Belt & Brushroll Assembly Removal / Installation

- Remove 5 Phillips screws from bottom plate.
- Remove bottom plate.
- Lift brushroll out and remove the belt.
- Remove the belt from the brushroll motor pulley.
- Reassemble in reverse order.
- To ease the installation of the brushroll install the belt side first, and make sure you rotate the brushroll to make sure it rotates smoothly.

B. Hood Assembly Removal / Installation

- Remove the belt & brushroll. (Section A)
- Remove 3 phillips screws from under brushroll.
- While slowly lifting the front of the hood assembly use a flat tip screw driver to gently pry the left and right side tabs one at a time until they release. This will need to be done for the left and right rear tabs also. (See picture for all four tab placements in red.)
- Remove the hood assembly.
- Inspect tabs for breakage once the hood is removed to ensure it is serviceable for reinstallation.
- Reassemble in reverse order.

C. Main PCB Board Removal / Installation

- Remove the hood assembly. (Section B)
- Remove the cooling hose.
- Disconnect electrical leads. (Please note the position of the leads prior to disconnection)
- Remove the main control board by removing 1 philips screw.

**Note:** When reinstalling any electrical components, make sure you reference the correct wiring diagram. After any rewiring, it is also necessary to route all wiring back into the proper retaining clips and/or holders.

- Reassemble in reverse order.

**D. Display PCB Assembly Removal / Installation**

- Remove the hood assembly. (Section B)
- Disconnect electrical leads. (Please note the position of the leads prior to disconnection)
- Remove the display pcb assembly

**Note:** When reinstalling any electrical components, make sure you reference the correct wiring diagram. After any rewiring, it is also necessary to route all wiring back into the proper retaining clips and/or holders.

- Reconnect electrical leads.
- Reassemble in reverse order.

**E. Brushroll Motor Removal / Installation**

- Remove the hood assembly. (Section B)
- Remove the 3 philips screws on the brushroll motor cover and lift it out of the way.
- Lift the brushroll motor out and disconnect the electrical leads.

**Note:** When reinstalling any electrical components, make sure you reference the correct wiring diagram. After any rewiring, it is also necessary to route all wiring back into the proper retaining clips and/or holders.

**Note:** This is a DC motor and has to be reconnected a certain way to insure proper rotation direction of the brushroll. Looking at the back of the brushroll motor the red lead goes on the terminal where the white insulation looks like a “P” (P for Positive).

- Reconnect electrical leads
• Reassemble in reverse order.

F. Suction Motor Cover Removal / Installation.

• Remove the hood assembly. (Section B)
• Remove the dust cup assembly.
• Remove the exhaust cover and filter.
• Remove 5 torx 20 screws from the motor cover.
• Placing the tip of a long flat tip screw driver on the left side of the inner wand storage tube (see picture) and while pulling the motor cover off gently apply pressure with the screw driver to the left side of the rear housing until the left top motor cover tab releases.

• Placing the tip of a long flat tip screw driver on the right side of the inner gray suction tube (see picture) and while pulling the motor cover off gently apply pressure with the screw driver to the right side of the rear housing until the right top motor cover tab releases.
The motor cover can usually be lifted off at this point, but if not release the 2 remaining tabs on the right side by gently pushing a flat tip screw driver through their slots. Reassemble in reverse order.

G. Suction Motor Removal / Installation

- Remove the hood assembly. (Section C)
- Remove the motor cover. (Section B)
- Remove the suction motor.
- Disconnect the electrical leads.

Note: When reinstalling any electrical components, make sure you reference the correct wiring diagram. After any rewiring, it is also necessary to route all wiring back into the proper retaining clips and/or holders.

- Reconnect the electrical leads.
- Reassemble in reverse order.

H. Air Valve & Tube Assembly Removal / Installation

- Remove the hood assembly. (Section C)
- Remove the motor cover. (Section B)
- Remove the suction motor tube by disconnecting the base assembly cooling tube from the suction motor tube. Remove 1 torx 20 screw under the cooling hose and lifting the tube up and place out of the way.
- Remove the top cover & buckle assembly (5 torx 20 screws)
- Remove the 6 torx 20 screws and lift the air valve & tube assembly out of the rear housing.
- Reassemble in reverse order.

I. Switch Housing Assembly Removal / Installation

- Remove the hood assembly. (Section C)
- Remove the motor cover. (Section B)
- Remove the air valve & tube assembly. (Section H)
● Remove the suction motor.
● Remove the 1 torx 20 screws from switch housing assembly and remove the assembly.
● Disconnect the electrical leads.

**Note:** When reinstalling any electrical components, make sure you reference the correct wiring diagram. After any rewiring, it is also necessary to route all wiring back into the proper retaining clips and/or holders.

● Reassemble in reverse order.

**J. Electrical Supply Cord Removal / Installation**

● Remove the dust cup assembly
● Remove the top cover & buckle assembly (5 torx 20 screws)
● Remove the fiber cord retainer washer. (1 torx 20 screw)
● Remove wire crimps from electrical supply cord.

**Note:** When reinstalling any electrical components, make sure you reference the correct wiring diagram. After any rewiring, it is also necessary to route all wiring back into the proper retaining clips and/or holders.

● Reassemble in reverse order.