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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 Head Screw Driver
Torx-20 screwdriver
Wire cutter pliers
Wire nut crimpers
3/8 Nut Driver

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

- Remove 3 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. **Rear Wheel Assembly Removal / Installation**

- Remove hub cap by prying off gently with a flat tip screwdriver.
- Remove torx screw and lock washer
- Remove Wheel Assembly
- When reinstalling wheel assembly insure large anti wear washer is installed between the wheel and the handle retaining ring.
- Reassemble in reverse order.

C. **Hood Assembly Removal / Installation**

- Remove the belt & brushroll. (Section A)
- Remove 4 torx screws from under brushroll.
- Remove left wheel (Section B)
- Remove 2 torx screws at (1 and 11o’clock) on handle retaining ring.
- Remove the left and right fenders by gently prying them with a flat tip screwdriver.
- Remove 2 torx screws from under the left fender.
- Remove 1 torx screw from under the right fender.
- Remove the bag cover and gasket.
- Remove HEPA filter.
- Remove 2 torx screws from the forward edge of bag compartment.
- Remove 4 torx screws from around HEPA filter.
- Remove the hood assembly.
- Reassemble in reverse order. When placing hood back on the unit be sure to install the cord guide/stop on the hood before fully setting it on the unit.
D. Main Control Board Removal / Installation

- Remove the hood assembly. (Section C)
- Remove the furniture guard.
- Remove 1 torx screw.
- Disconnect three diaphragm hoses marking them to insure correct placement when reassembling.
- Disconnect electrical leads.
- Remove the main control board.

**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.

E. Handle Assembly Removal / Installation

- Remove both wheel assemblies. (Section B)
- Remove the hood assembly. (Section C)
- Remove the furniture guard.
- Remove the handle assembly retaining rings by removing 3 torx screws from both rings.
- Detach the handle 2 electrical wires by cutting off the wire crimps.
- Remove handle 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 wires with new crimps.
- Reassemble in reverse order.

F. Brushroll Motor Removal / Installation

- Remove the hood assembly. (Section C)
- Remove the furniture guard.
- Remove 1 torx screw from the back side of the brushroll motor cover and lift the cover off.
• 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.

G. Suction Motor Removal / Installation.

• Remove the hood assembly. (Section C)
• Remove the light panel on the back of the motor shroud assembly by removing the clam shell nut with needle nose pliers or 3/8 nut driver and lifting the light panel out of the way.
• Remove 4 torx screws from inside bag compartment.
• Lift out motor shroud/bag compartment out.
• Remove 4 torx screws from the motor shroud and separate it from the bag compartment.
• Remove the motor.
• If replacing the motor remove the rear motor mount and can gasket.
• 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 electrical leads.
• Reassemble in reverse order.

H. Cord Reel Assembly Removal / Installation

• Remove the hood assembly. (Section C)
• Remove Right wheel assembly. (Section B)
• Remove the 4 torx screws from inside bag compartment and lift the motor shroud/bag compartment out of the way as required.
• Remove the right handle retaining ring top torx screw, this doubles as the cord reel top retainer.
• Remove 1 torx screw forward of the cord release pedal.
• Lift out the cord reel assembly remembering that the top handle retaining ring screw boss needs to clear the base 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.

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