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Tools Required:
Safety Glasses
Clean Pad or Soft Cloth (to prevent scratching of plastic parts during repair)
Flat Head Screwdrivers - preferably one small w/ narrow tip
Torx-20 Screwdriver
Needle nose pliers (optional)

WARNING: Before any repair work is performed make sure the unit is unplugged.

NOTE: Prior to performing any maintenance look at the RPL to become familiar with
the part names and locations.
A. Hood & Brushroll Removal / Installation

- Turn the powerhead upside down, and remove the soleplate by turning the four (4) quarter turn locks clockwise into the unlock position. Grab the plate near the top where there is an opening, and pull down to remove from the bottom of the powerhead. (Picture A.1)
- Remove the brushroll by pulling up on the right end, and then shift away from the drive assembly. (Picture A.2)
- Remove four (4) T-20 screws from the base. Two are behind the brushroll, and two are recessed in the base, above the wheel axle. (Picture A.3)
- Turn the head over, and from the rear press on the two tabs near the swivel neck to unlatch the hood. (Picture A.4) Pivot the hood towards the front of the unit to remove.
- Reassemble in reverse order.

![Picture A.1](image1)

![Picture A.2](image2)
B. BRC Pedal & Blade Removal / Installation

- Remove the Hood & Brushroll (Section A)
- Remove one (1) T-20 screw from the bracket. (Picture B.1)
- Shift the BRC Pedal out of the base. (Picture B.2)
- Press down on the torsion spring, and hold while removing the bracket from the base. (Picture B.3)
- Pivot the blade axle, grip the end where it makes a 90 degree bend, and pull to the left. (Picture B.4) To fully remove the blade (only necessary when replacing), remove the torsion spring from the end, pivot and slide the end of the axle through the hole in the base.
- Reassemble in reverse order
C. Motor Assembly Removal / Installation

- Remove Hood & Brushroll (Section A)
- Remove BRC Pedal & Blade (Section B)
- Remove four (4) T-20 screws. Three are located on the motor cover, and one is near the front on the drive assembly. (Picture C.1)
- Lift up on the motor & drive assembly to remove it from the base. (Picture C.2)
- Remove the black and white wires from the motor. (Picture C.3)
- Reassemble in reverse order. Tip - the black wire attaches to the terminal “P” shaped plastic housing.

Picture C.1
D. PCBs & Neck Assembly Removal / Installation

- Remove the Hood & Brushroll (Section A)
- Remove the LED PCB by disconnecting the white ribbon cable from the Main PCB, and then unclip the ribbon cable from the base as you move towards the LED PCB. (Picture D.1)
- Remove two (2) T-20 screws on the PCB holder. (Picture D.2)
- Remove three (3) T-20 screws by the neck assembly. (Picture D.3)
- Disconnect the red and black wires from the Main PCB. (Picture D.4) Tip - The black wire connects to AC PIN1, and the red wire to AC PIN2.
- Lift the air channel cover, including Main PCB, out of the base. The neck can be removed at this time too.
- Reassemble in reverse order
E. Pedals & Height Adjustment Removal / Installation

- Remove Hood & Brushroll (Section A)
- To remove the handle release pedal, using a flat head screwdriver apply pressure to one side of the pedal, at the point where the pedal pivots to loosen that side. Repeat on the opposite side, effectively “pinching” the pivot points, to completely disengage. (Picture E.1)
- Remove BRC Pedal & Blade (Section B)
- Remove PCBs & Neck Assembly (Section D)
- Remove the tension spring from the arm running under the height adjustment cam. (Picture E.2)
- Remove the height adjustment pedal in the same way as the handle release pedal, but you will also be able to remove the attached arm at this time as well. (Picture E.3)
- The height adjustment cam can also be removed in a similar manner as the two pedals. The force needed is much greater however, since the cam is recessed down into the base further. In order to help remove the cam, it is recommended that one side be pried upward. Then another screwdriver can be placed under the cam, and slight pressure applied upwards in order to prevent the cam from slipping back into place. Then the opposite side can be pried upwards to completely remove the cam. (Picture E.4)
- Reassemble in reverse order.
F. Front & Rear Wheel Assembly Removal / Installation

- Remove caps on either rear wheel by prying between cap and overmold. After repeating this in a few spots around the cap it should disengage from the wheel. (Picture F.1)
- Remove the retaining ring on the rear wheel axle to replace the wheel. (Picture F.2) Repeat the same process on the other rear wheel.
- Remove Hood & Brushroll. (Section A)
- Remove Main PCB. (Section D)
- Remove the tension spring connected between the front wheel axle and the indicator arm. Flex the indicator arm to the right in order to slide it off the axle. (Picture F.3)
- Squeeze the bottom of the indicator arm to remove. (Picture F.4)
- Turn the unit over and slide the valve away from the base. (Picture F.5)
- Slide the axle out from the retainer clips on the bottom of the base to remove. (Picture F.6)
- Reassemble in reverse order. Tip - When reinstalling the valve door, slide it in from the bottom of the base and use a finger to lift the flat spring so that it aligns into the molded slot. (Picture F.7)
G. Belt Removal / Installation

- Remove Hood & Brushroll (Section A)
- Remove BRC Pedal & Blade (Section B)
- Remove Motor Assembly (Section C)
- Using a small flat head screwdriver, pry the four (4) clips around the cover on the side of the motor. The cover also needs to be shifted away from the drive shaft (see arrow in G.1) to fully release. (Picture G.1)
- The belt is now accessible. In order to remove the belt use a small flat head screwdriver to get under the belt and while angling the tip to pull the belt off of the pulley, rotate the belt so that it works itself off of the drive assembly. (Picture G.2)