

Motor Replacement

Disassembly:

Tools: #10 star bit, long screwdriver extension, two slip plyers

1. Turn the Solar-Breeze robot upside down, (make sure power switch is OFF)
2. Remove debris tray and chlorine tray
3. Remove 20 screws which are holding gray pontoons to the white top housing, using a #10 star bit (Two 62mm screws through front bumper-wheel axle, two 50mm screws through rear bumper-wheel axle, four 14mm screws, twelve 20mm screws)
4. Remove pontoon from top housing be sure to lift the pontoon straight up off the white top housing
5. Remove screws holding the motor platform (front platforms need to remove navigation blue LED lenses)
6. Lift platform off white top housing, slide drive hub off end of the paddle-wheel
7. Remove motor mount screws
8. Disconnect six pin motor connector from wire harness by unscrewing plastic nut
9. This is a good time to service all moving parts. Use a low viscosity white lithium grease.

Assembly:

10. Connect replacement motor six pin connector to wire harness connector making sure to line up two arrows on male and female connectors (***Do not rotate connector's! Only push male and female connectors together when the two arrows are lined up.***)
11. Mount motor to platform using motor mount screws
12. Slide drive hub onto the end of the paddle-wheel
13. Mount platform to white top housing (front platforms need bumper-wheel axle aligned and seated into stainless bearing, mount navigation blue LED lenses)
14. Place pontoon onto white top housing
15. Align both 50mm flange screws with rear bump-wheel plastic axle, (tighten only three rotations)
16. Place six 20mm flange screws into three deep holes on both pontoons along the center line of each pontoon
17. One by one align screws with each plastic screw boss stem, (tighten only three rotations)
18. After screw boss alignment, press down on both pontoons to lock pontoons to white top housing
19. Tighten all screws, make sure not to over tighten 50mm screws through rear bumper-wheel axle (wheel should spin free)
20. Install and tighten six 20mm flange screws along inside edge of both pontoons
21. Install and tighten four 14mm flange screws two at front and two at rear of the unit
22. Install 62mm screws through front bumper-wheel axle (do not over tighten, bumper-wheels must turn freely)
23. Turn on the power switch, make sure paddle-wheels are spinning freely
24. If, paddle-wheels or bumper-wheels are binding repeat and check steps 10 – 21

If you need help, call (623-582-2825)

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