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Tools required to Replace a M-58 Motor:  
Phillips head screwdriver, needle nose pliers,  
5/16 nut driver, and 3/32 Allen wrench.



1. Unplug the center module and remove from Big Dipper tank.



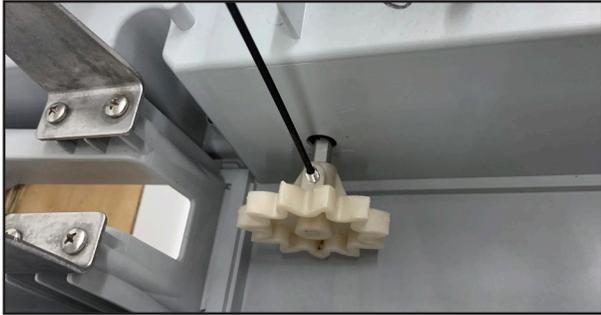
2. There will be (4) bolts on the front and (1) in the rear. Use a Phillips head screwdriver and turn counter-clockwise to remove (5) bolts. Set bolts aside.



3. Use the needle nose pliers to straighten out the legs of the cotter pin and push the pin through the shaft.



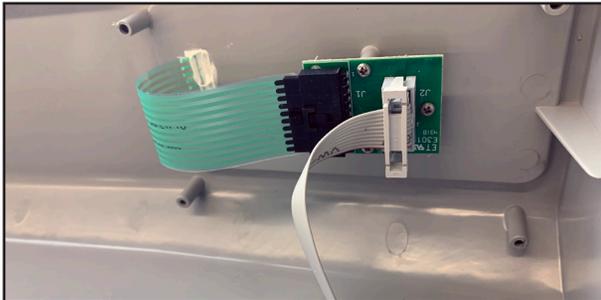
4. Remove the Skimming Wheel Assembly and shaft then set to the side.



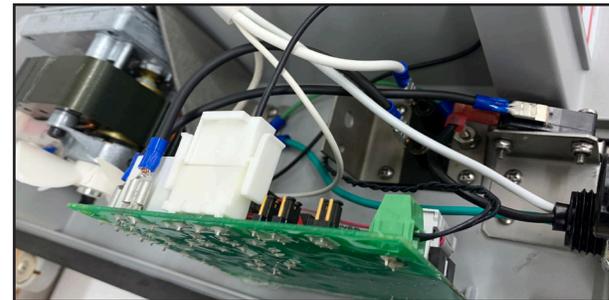
5. Use the 3/32 Allen wrench and turn counter clockwise to loosen the bolt to remove the sprocket from the motor shaft.



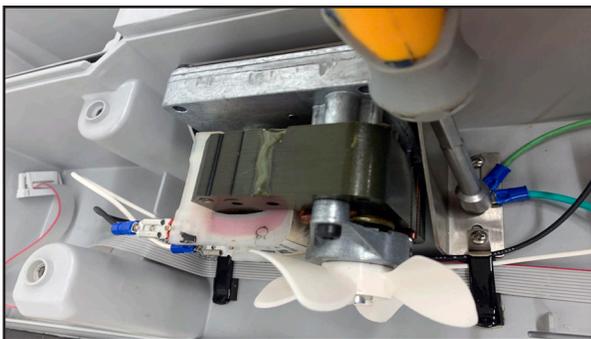
6. Lift the cover over the skimming wheel to pry open the EECA-1 (Electrical Enclosure Cover Assembly). Pull upwards until EECA is removed from the center module.



7. Disconnect the push button ribbon from the push button adapter.



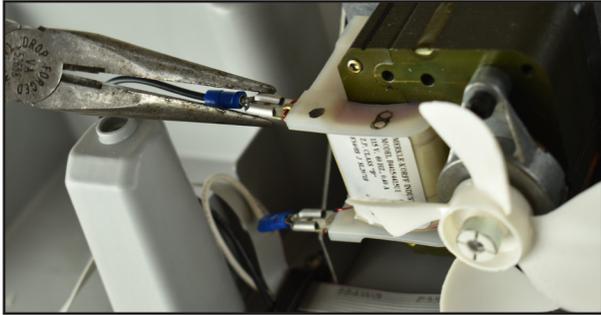
8. It is recommended to remove the board for easier access to the motor. Before unplugging any wires, take a picture of the wiring for reference.



9. Use a 5/16 nut driver and turn counter-clockwise to remove the nut and washer.



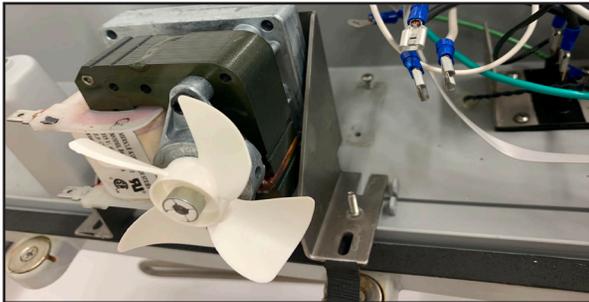
10. Remove the (2) front bolts from the motor assembly and loosen the (2) bolts on the rear. Note, the rear bolts do not have to be removed completely.



11. Use needle-nose pliers to remove the motor wire connectors.



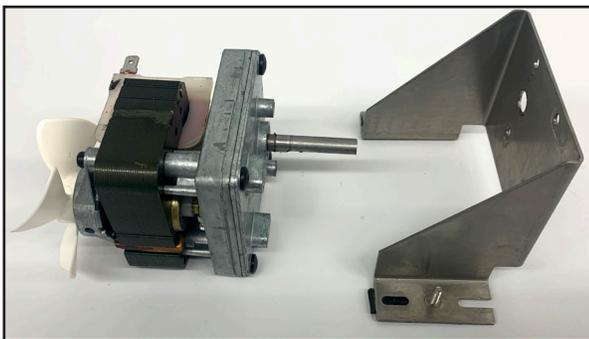
12. Pull the motor wires and push button ribbon to the rear side of the center module for easier access to remove the motor.



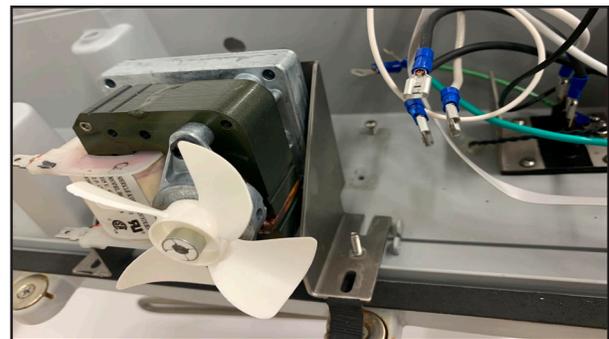
13. Pull away the motor assembly from the center module.



14. Remove the washer from the motor shaft and use a Phillips head screwdriver to remove the (4) bolts securing the existing motor to the motor assembly.



15. Secure the new motor to the assembly using the (4) existing bolts and place the washer on the motor shaft.



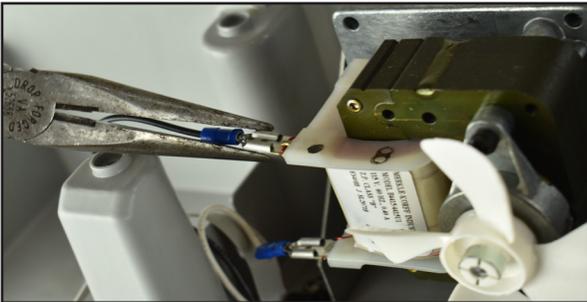
16. Slide the motor assembly into the center module motor position.



17. Secure the rear bolts on the motor assembly.



18. Set the push button ribbon and motor wires underneath the (2) bolt clips and secure the (2) front bolts.



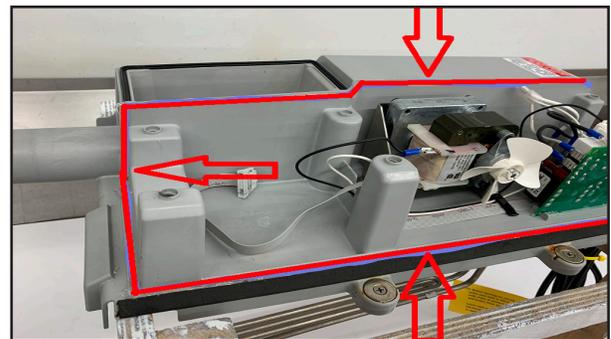
19. Connect the motor wires to the motor. Black wire on top and white wire on bottom.



20. Place the (2) ground wires in position and install the washer. Use the 5/16 nut driver to secure the nut.



21. Use the pictures taken earlier to reconnect all wires correctly. There is a wire diagram beneath the EECA cover for reference if needed.



22. Using the sealant provided, apply sealant along the groove of the EECA cover and center module as illustrated above.



23. Before installing the replacement EECA. Be sure the main board and electrical plate are aligned to their holding groove.



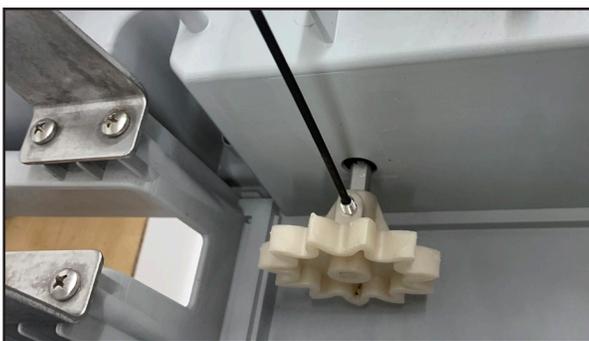
24. Connect the push button ribbon.



25. With the skimming wheel cover open. Place the replacement EECA on the center module.



26. EECA cover should be flush with the center module.



27. Flip the center module and place the sprocket in the motor shaft and align to the middle of the skimming wheel placement.



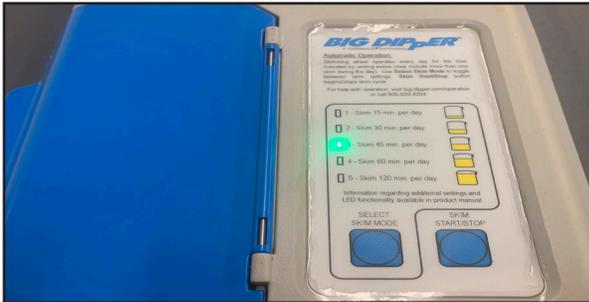
28. Place the skimming wheel in position. Slide the shaft thru the wheel and shaft assembly. Insert the cotter pin thru the shaft and open the legs of the cotter pin.



29. Secure using the (5) bolts that were removed from the cover. (4) in the front and (1) on the rear.



30. Set the center module on the Big Dipper tank and latch the lids on each end. Place the grease collector on the front end.



31. Plug the unit to a power source. Select the appropriate skimming cycle for your business.

If you continue to experience issues please contact Thermaco Technical Support Team at [support@thermaco.com](mailto:support@thermaco.com) or 800-633-4204.

For additional troubleshooting guides go to [www.dipperhelp.com](http://www.dipperhelp.com)