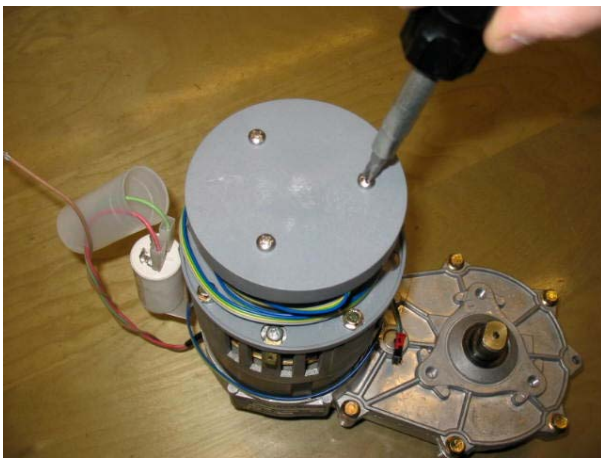


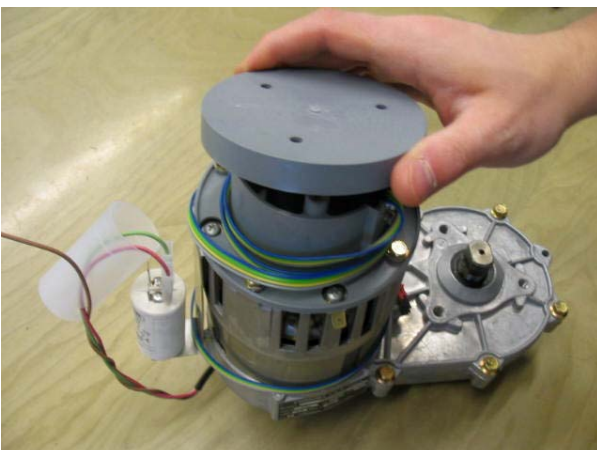
## ELECTRONIC FLAKERS AF SERIES AND MF 22 – MF 30

### GEAR REDUCER REMOVAL AND REASSEMBLY INSTRUCTIONS

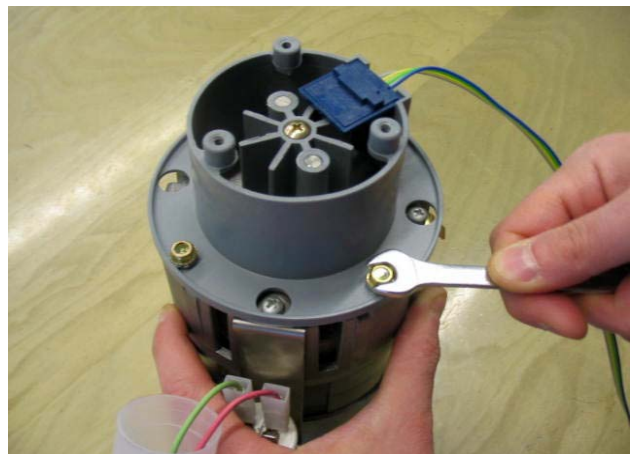
1. Unscrew the three screws securing the plastic cover.



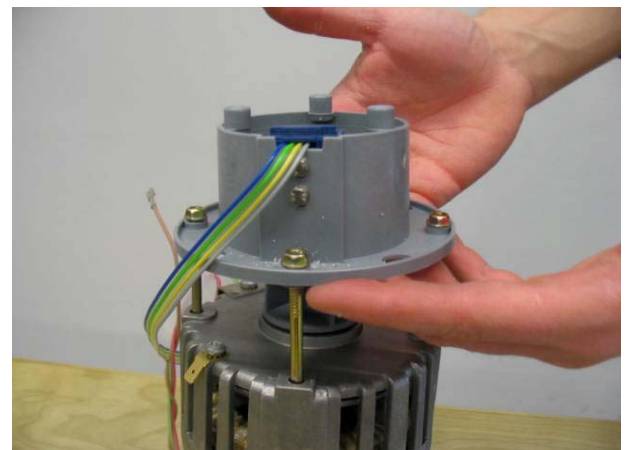
2. Remove the plastic cover.



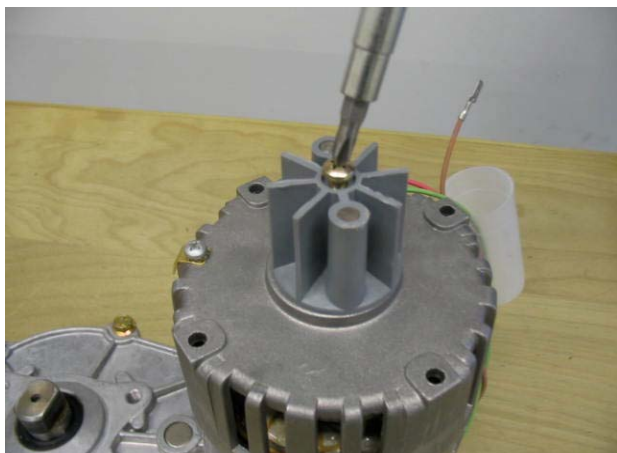
3. Unloose the four screws and.....



4. ....take off the entire plastic cover including the Hall Effect Sensor.



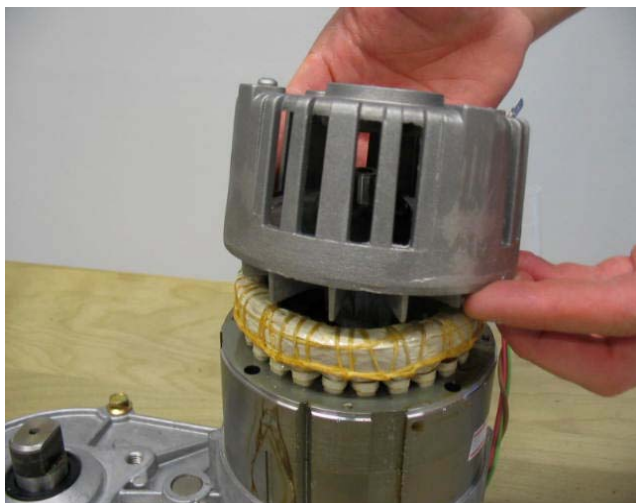
5. Unloose the screw securing the Magneto Holder Assy.



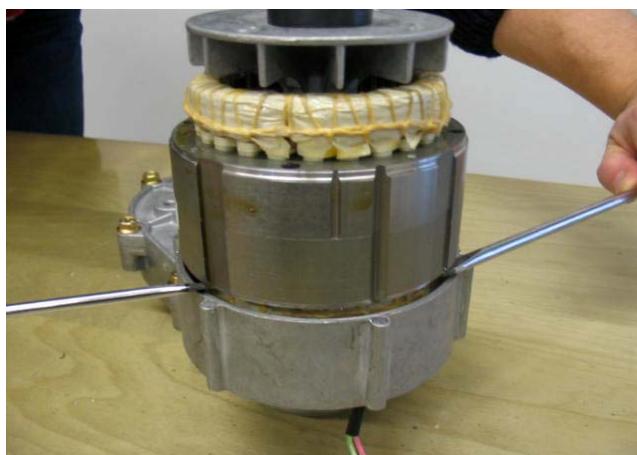
6. With the help of two screwdrivers rise up the Drive Motor Cover and....



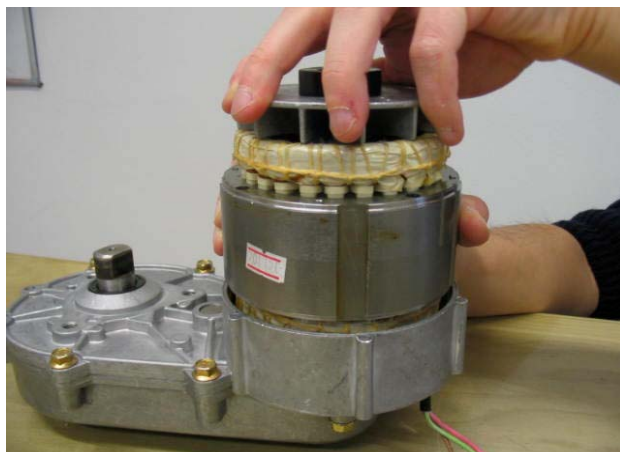
7. ....remove it from the Stator.



8. With the help of two screwdrivers rise up the Stator from the upper side of the Gear Case Cover till.....



9. ..the Stator and the Rotor are out from the bottom base.



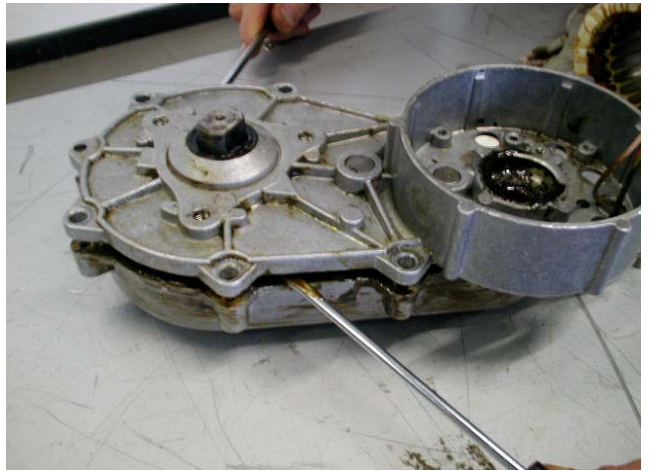
10. Rise up the entire Rotor Assy with the upper fan blade.



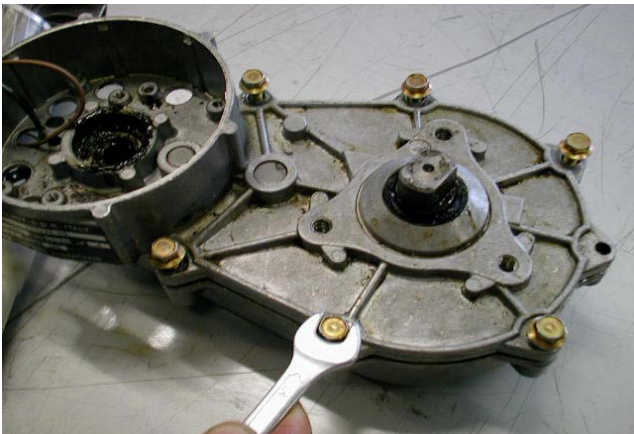
11. ....then remove the Stator from the upper side of Gear Case.



13. With the help of two screwdrivers rise up and remove the upper part of the Gear Case.



12. Unloose the eight screws of the Gear Case.



14. Remove the Second Gear & Pinion with its own trust washers.



15. Remove the First Fiber Gear & Pinion with its own trust washers.



18. Clean and check the external condition of each single Gear .



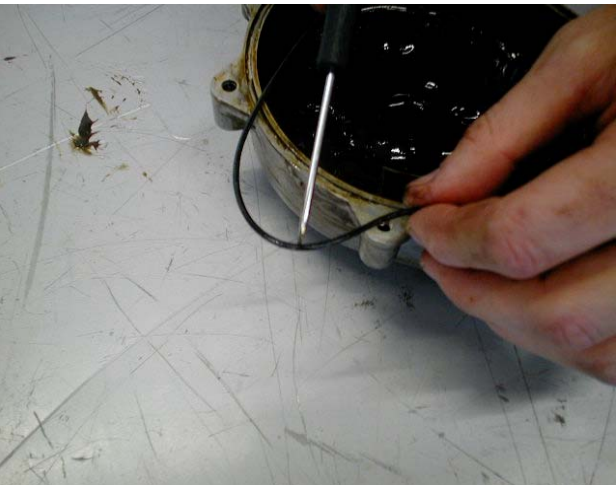
16. Remove the Output Gear & Shaft with its own trust washers.



19. Clean away the old grease from the inner surface and check the conditions of the internal bearings of the Gear Box.



17. Remove the O-Ring around the Gear Case.



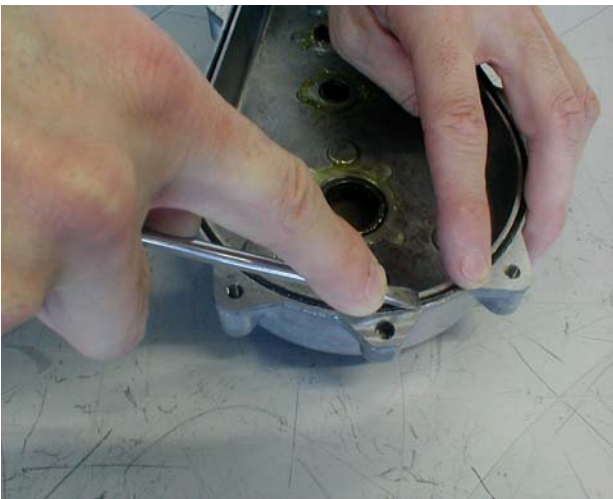
20. After cleaning, lubricate the roller bearings .



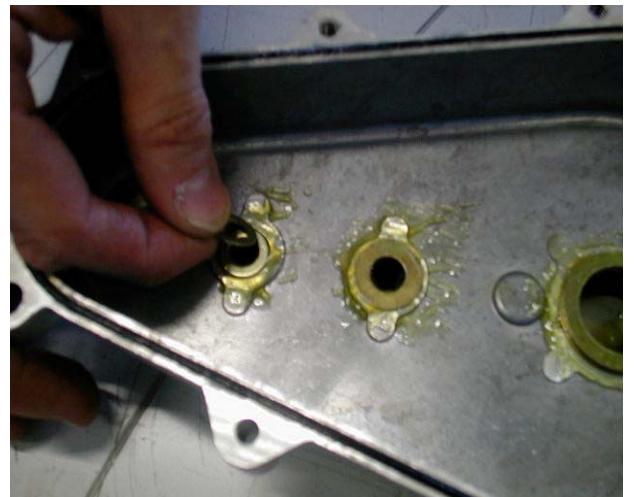
23. Place one (1) trust washer **p/n 441800 07** on the Second Gear's housing.



21. Install a new O-Ring around the Gear Case.



24. Place one (1) trust washer **p/n 441800 05** first, then one (1) washer **p/n 441800 06** on the First Fiber Gear's housing.

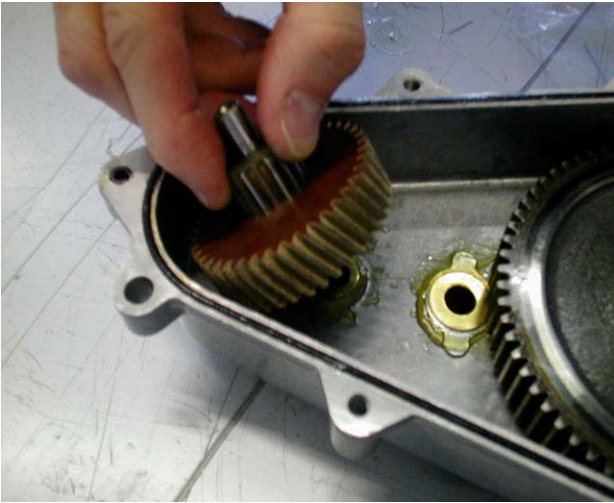


22. Place one (1) trust washer **p/n 03-1408-04** first, then one (1) washer **p/n 441808 00** on the Output Gear's housing.

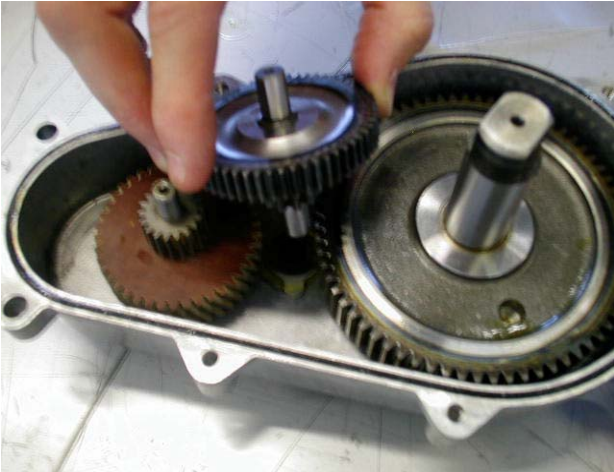


25. Install the Output Gear & Shaft and the First Fiber Gear & Pinion into the Gear Box.





26. Install the Second Gear & Pinion matching it with the other Gears already placed.



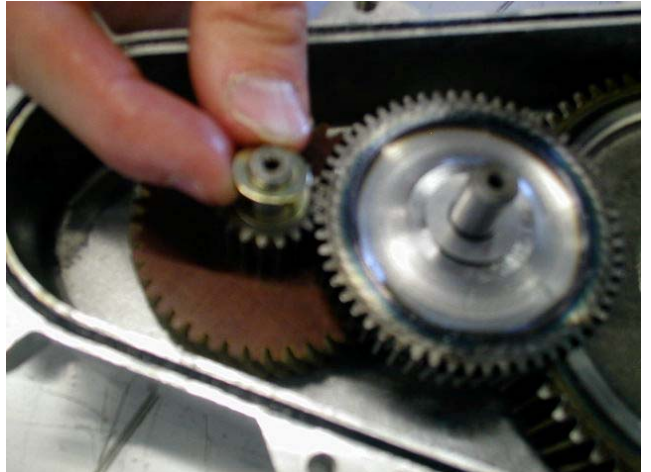
27. Place one (1) trust washer **p/n 441808 00** first, then one (1) washer **p/n 03-1408-04** on the Output Gear's Shaft



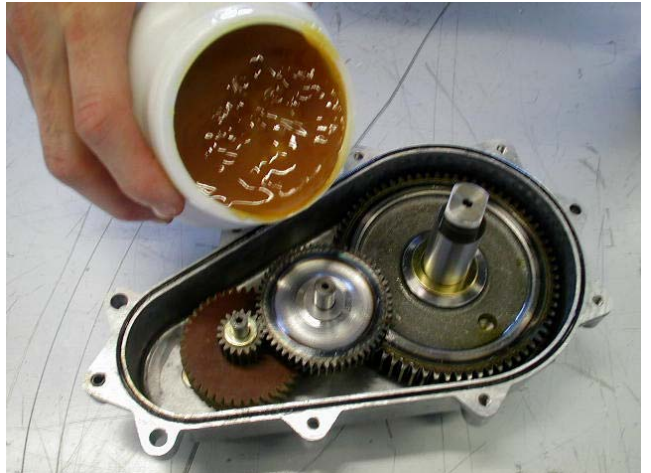
28. Place one (1) trust washer **p/n 441800 08** on the Second Gear's Shaft



29. Place one trust washer **p/n 441800 06** first, then one (1) washer **p/n 441800 05** on the First Fiber Gear's Shaft.



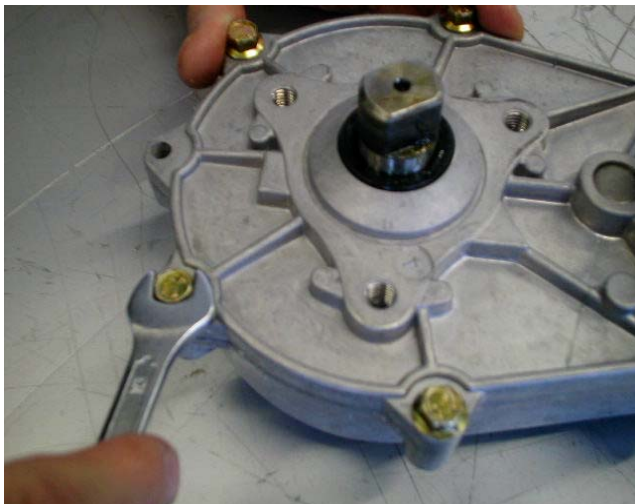
30. Pour in the Gear Case **300 Grams** of new grease **p/n 060294 01**



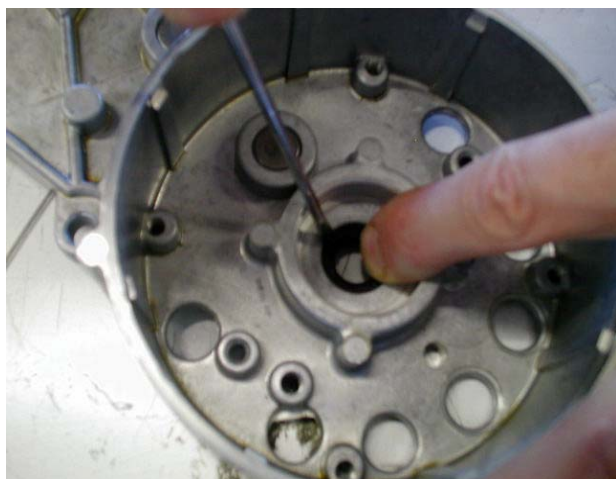
31. Remove and replace the grease seal located on the Output Shaft hole of the Gear Case Cover...



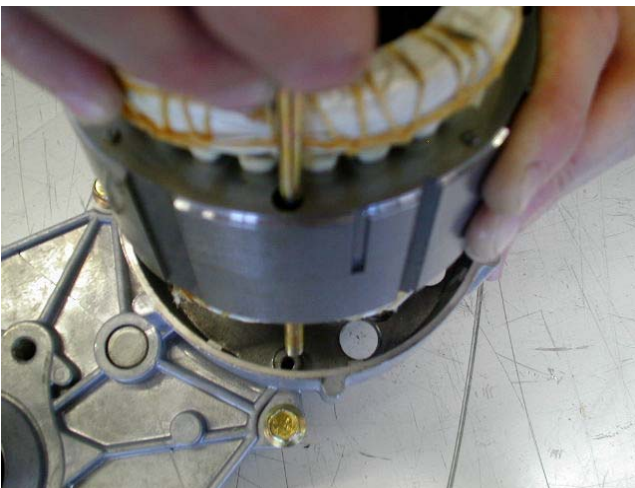
34. Tighten the eight screws of the Gear Case.



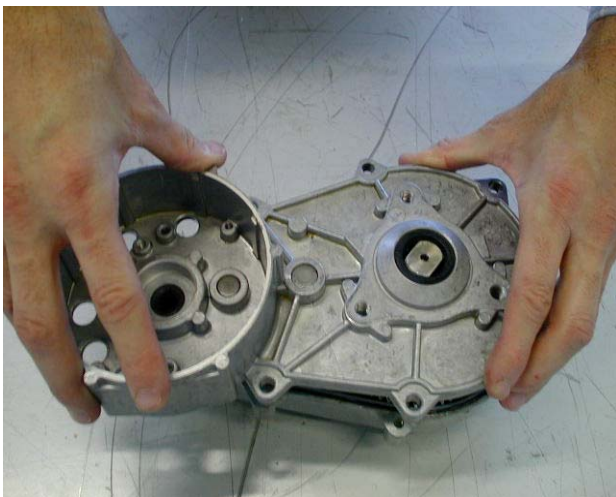
32. ...and the second one located in the Rotor hole, paying attention to have the " U " of both grease seals facing inside.



35. Place the Stator in its seat taking care to match the four holes of the bottom housing.



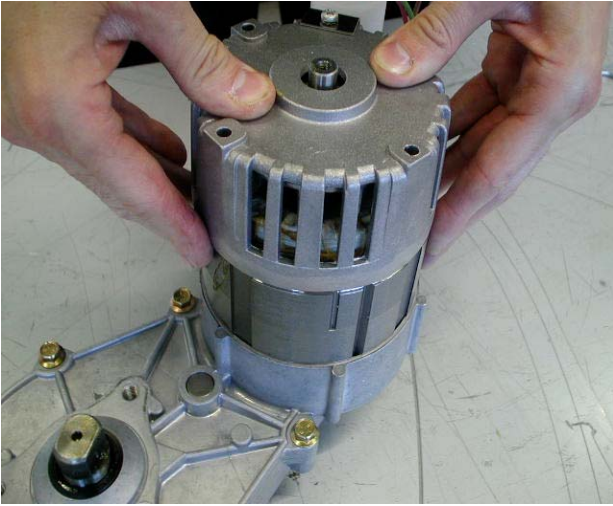
33. Re-install the Gear Case Cover



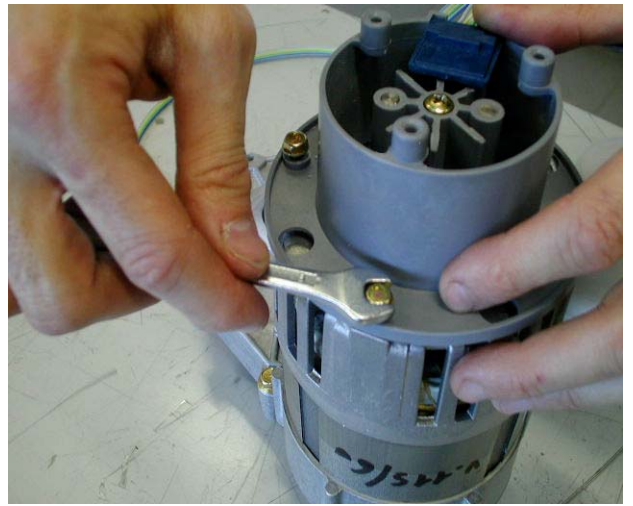
36. Install the Rotor Assy into the Stator matching the lower bearing housing.



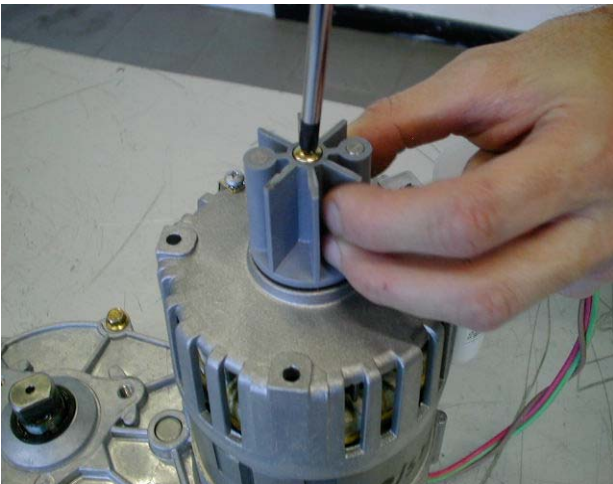
37. Install the Drive Motor Cover



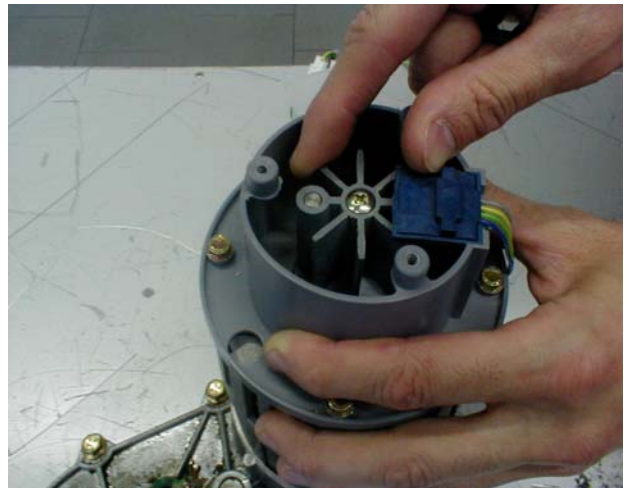
40. Tighten the four screws.



38. Place and tighten the screw holding Magneto Holder Assy.



41. Check the proper rotation of the Rotor.



39. Place the entire plastic housing including the Hall Effect Sensor pay attention to match with the four screws the holes on the upper side of the Gear Case Cover.



42. Place and tight the three screws of the plastic cover.

