



IDEAL ELECTRIC Co.

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Aftermarket Service Department

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## SERVICE BULLETIN

### CHANGING OUT ROTATING ELECTRONICS ON IDEAL BRUSHLESS MOTORS

1. This applies to most units with external overhung exciters mounted on a sleeve and either bolted to the end of the shaft extension or locked into position with a ring feeder or lock washer and nut.
2. Remove the exciter cover.
3. Disconnect the two main field leads from the existing rotating electronic assembly.
4. Disconnect the four armature leads (three from the diodes and one from the rectifier plate). Be sure to un-secure the leads from the assembly where they be laced or clamped.
5. Locate the two Allen set screws (90 degrees apart) that secure the electronic assembly to the sleeve.
6. Break these loose and back out at least three turns.
7. Grab a hold of the assembly and rotating slightly while pulling this off of the sleeve. Be careful that the leads that were disconnected are not damaged as you pull the assembly off and feed these through the grommets holes.
8. Install the new assembly on the sleeve feeding the field and armature wires through the proper holes and lock the assembly in place, on the sleeve, with its setscrews.
9. It maybe necessary to lengthen or extend the existing armature and field wires. Extending should be done by butt splicing, then soldering the splice and insulating the splice and adjacent wire with shrink tubing and high temperature glass sleeving or equivalent.
10. Connect the main field and armature leads to the proper locations on the new assembly. Be sure these are secured properly to the components and the assembly to eliminate any movement or the leads or stress on the rotating components.
11. Replace the exciter cover
12. Set the excitation supply for the rated excitation plus 15% with the unit cold.
13. Start and operate the unit. After approximately two hours of operation re-adjust the excitation for the nameplate rated value if necessary.
14. There maybe some slight variables from one unit to another depending on the vintage of the unit and its HP size and speed.

**This conversion process usual takes about 4-5 hours.**