

Tips to help you replace brushes on your AFX G+ cars.

Shown here is the condensed version created by Joe "GrandCheapSkate" on Slot Car Illustrated. This is based from a post on the Hobby Talk Forum in 2013 by "JISP". A link to the full post: <https://www.hobbytalk.com/threads/afx-g-plus-brush-removal-and-replacement-photo-guide.395910/>.

Here is Joe's version

After messing around with this chassis for probably close to five hours, the secret was revealed! It took a leap of faith to remove the two brushes after spending those five hours getting them in but it was worth it. The total reassembly time was less than 30 minutes. Next time I should be able to do it in about half that time.

If you plan to disassemble the entire chassis, the secret is as follows:

1. Once all that is left is the bare chassis, put the armature back in.
2. Now install the motor magnets and motor clip.
3. Put the brushes and brush springs into the brush barrels and put the barrels into the brush barrel retaining clip.
4. One at a time, take the fully assembled brush assembly (retaining clip, brush barrel brush and spring) and slide the rear part of the retaining clip (the part where the shoes hook on) into the chassis. Do not yet push in the front of the retaining clip.
5. With the front of the retaining clip still "unhooked" and the brush sitting over the top of the comm, gently push the brush into the brush barrel while also sliding it down into position. This should let the rear of the retaining clip snap into position.
6. Once the brush barrel is in place, push the front of the retaining clip down until it snaps in.
7. Repeat on the other side.

Sounds so simple. The secret is to completely remove the brush assembly and first install the armature. Then install the brush assembly as one unit. The hardest part for me was getting the front of the retaining clip to unhook from the chassis so I could remove the retaining clip. The instructions I read said just to use a small screwdriver and pry it out. It wasn't that easy to come out.