

Bonanza/Baron Door Handle Spring Replacement

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1. Access hole behind interior trim panel is small! Stuff a paper towel down to the right to prevent hardware from falling into inaccessible places.



4. Old broken spring is around bushing, which the clevis pin holds in place.



2. Lower left door handle screw also holds door handle clevis pin in place. Loosen the screw for clearance.



5. After loosening outside lower left screw, I used for-ceps to pull the clevis pin down and out. Note the two green "flat plates" visible in upper left, referenced in steps 13 and 15b.



3. Inside of door, looking up at door handle pivot. Large round item is head of clevis pin. This pin is what the door handle pivots around. The spring goes around the pin and it's bushing. Note the small screw coming in from the top, which keeps the pin from falling out. Note green "flat plate" at bottom left, mentioned in steps 13 and 15b.



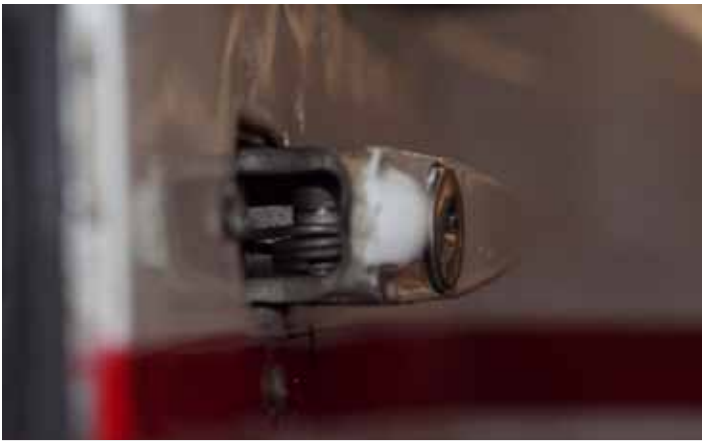
6. View from the side of the clevis pin coming out. Screw coming in from right is the lower left outside screw that must be loosened for clearance.



7. Upward view after clevis pin was removed. Tail of old spring is visible at left. Also at left are the two green “flat plates”, mentioned in steps 13 and 15b.



10. Tail of old spring is sandwiched between door skin and door handle mount casting. The rear screw holds it in place. Loosen or remove the screw to remove old spring tail.



8. With clevis pin removed you can pull the handle out a bit. The old spring wraps around the bushing that the clevis pin goes through.



11. Using forceps to remove old spring tail. The green object in the background is one of the “flat plates” mentioned in steps 13 and 15b.



9. Bushing after being pulled upward a bit. You can remove main part of old spring with forceps.



12. New and old spring



13. Door handle is held in place by two small pins (circled) that engage holes in two flat plates (not shown here). Squeeze the two plates together and pull the door handle free. There will be two thin washers between the plates and the handle, be careful not to lose them.

Install new spring in door handle using bushing. Put a small amount of grease inside bushing to lubricate clevis pin. Push tail of spring down and hook it on the lower pin (left pin in this photo), which will facilitate installation.



15a. Insert handle into door, working spring towards rear of airplane. Hook spring under door handle mount casting, pull handle towards front of airplane so that spring tail hook passes between casting and door skin right past the rear screw hole - this will probably take a few tries to get it right. Use a dental pick to persuade spring into proper position and install rear screw.

15b. (not pictured) Use a dental pick to position thin washers on door handle pins using a drop of grease to hold them in place, then connect to small flat plates. This step is a little tricky... the paper towel I pushed into the door cavity to prevent things from falling into the abyss saved me a couple times.

15c. (not pictured) Press in on door handle to align door handle bushing with door handle mount casting hole. Insert clevis pin from bottom. Tighten lower rear screw to hold clevis pin in position. This step was quite easy, once the holes were aligned.

15d. Lubricate all moving parts with a small amount of LPS-3 or similar. Reinstall interior door panel. Done!

No photos for the last few steps - sorry! I was working solo, required both hands to do the work, so it was impossible to operate the camera.

Overall, the project required about 4 hours of work. If I did it again tomorrow it might take less than an hour.