

**Step One:** Remove the roller shade cover. There are six push clips along the front of the cover that hold it in place. Start on an end and work your way across the shade cover. The metal L brackets the holds cover in place is circled.



**Step Two:** There is a rubber plug that the shade sits in when it's retracted. I noticed the rubber plug had developed a very deep impression and the metal bracket that was suppose to stop the shade from being pulled back to far had shifted over time and the shade was slipping past it. Photo below shows shade retracted and missing the metal bracket. Rubber plug right above it. I took a pliers and bent it back into place so it would stop the shade. I also turned the rubber plug 90 degrees so the shade was not hitting in the indented area of the plug. Test the shade up and down to make sure shade hits the metal bracket and moves smoothly.

**Step Three:** When reinstalling the roller shade cover I only pushed in one push clip (clip #3) to hold in the shade cover in place. I found that by using just the one clip, it held the cover in place and it allowed the shade to move up and down easier. I figured with the roller shade motor over 13 years olds anything to make its job easier is a good decision. I've enjoyed over a month of perfect roller shade operation.



As for that annoying rattle I mentioned earlier. If you looked carefully on the second set of photos there are two brown color objects laying on the rear shelf.



It seemed that over time the glue that held the two objects in place failed and left the two objects laying on the metal rear shelf. When ever I went over a bump or rough surface the two objects would mover around causing the rattle. Once the two objects were removed; the rattle was gone.

A working roller shade and rattle gone in 45 minutes. Job well done. Hope this helps anybody looking to cue a stuck roller shade or an annoying rattle in the rear shelf.