



W210 Rear Sunshade Remove and Overhaul

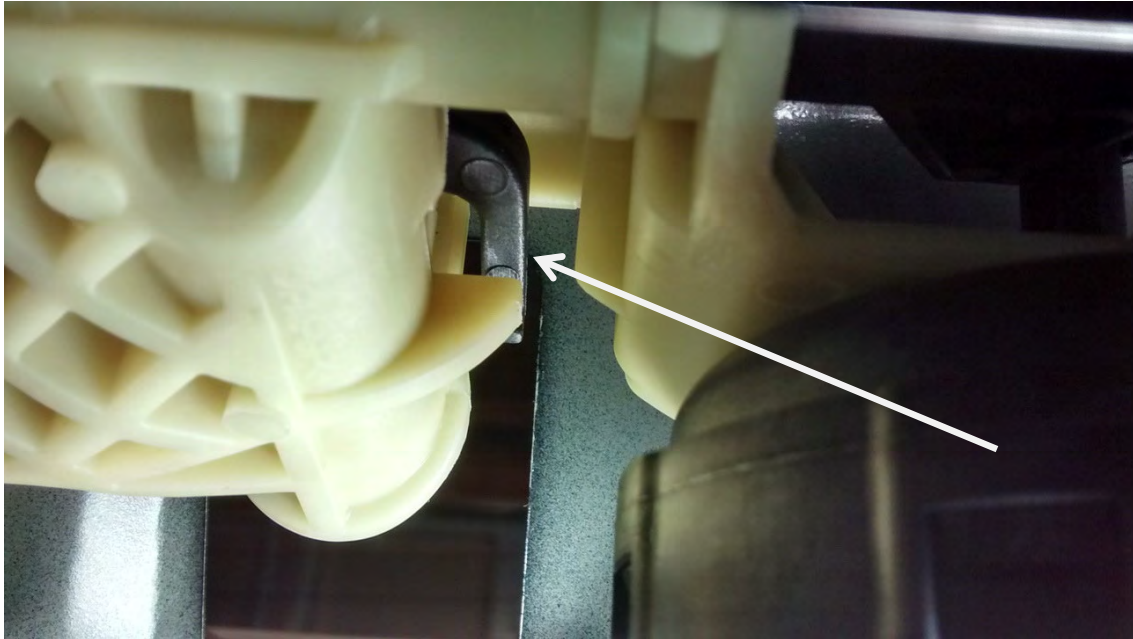
- Release two latches under rear seat cushion, lift out, set aside.
- Remove 3 each 10mm hex-head bolts from rear seat back, lift up cushion to release hooks on top, remove.



- Unhook and lower insulation out of the way.



- Release plastic trim around headrest arms on package shelf (lift up front of plastic trim and then slide forward).
- Slide fingers along outside of plastic mounts into which the metal arms mount and feel for the plastic release levers. Lift the levers up and have another person slide the headrest to the rear or use your forehead to bump it out of the mounts. Repeat for each headrest. (NOTE: See next slide for lever photos.)



-Looking from front to rear.
Remember, one on each
side.



-Looking from rear to front
after headrest removal to
show lever raised by finger.
Remember, one on each
side.



-Remove C-pillars. Pull near the top towards center of car until plastic fastener clips come loose, then slide trim forward to release lower hooks, lift and slide along seat belt out of the way.

-#1 is a metal clip that will most likely remain attached to the car. 2, 3, and 4 are plastic tabs that will most likely break. 011-988-76-78-M58 is the part number for the plastic clips.

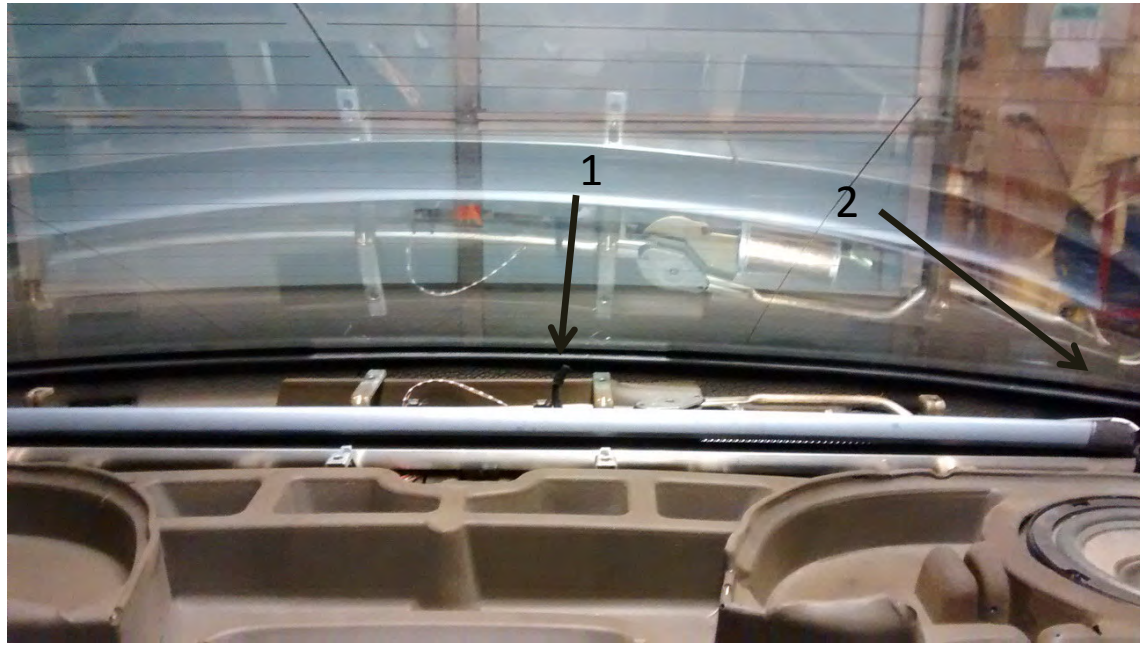
NOTE: You do not need to remove the C-pillar from the seat belt and the car; this one was removed to be recovered.



- Remove plastic pins at two front corners. Disconnect center seatbelt.
- Package shelf is held in place by multiple plastic fastener clips. Expect the clips to break, the brackets to pull loose from the backing, and the package shelf to pull apart into two separate pieces along the horizontal joint line in photo.
- Have a plan to repair the plastic around the brake light. It will most likely break.



- Arrow points to location of 3rd brake light wire under the package shelf. Just pull the connector (small!) straight down. (if you can reach it.)
- Plan now on the need to rebuild the package shelf. See later slide.



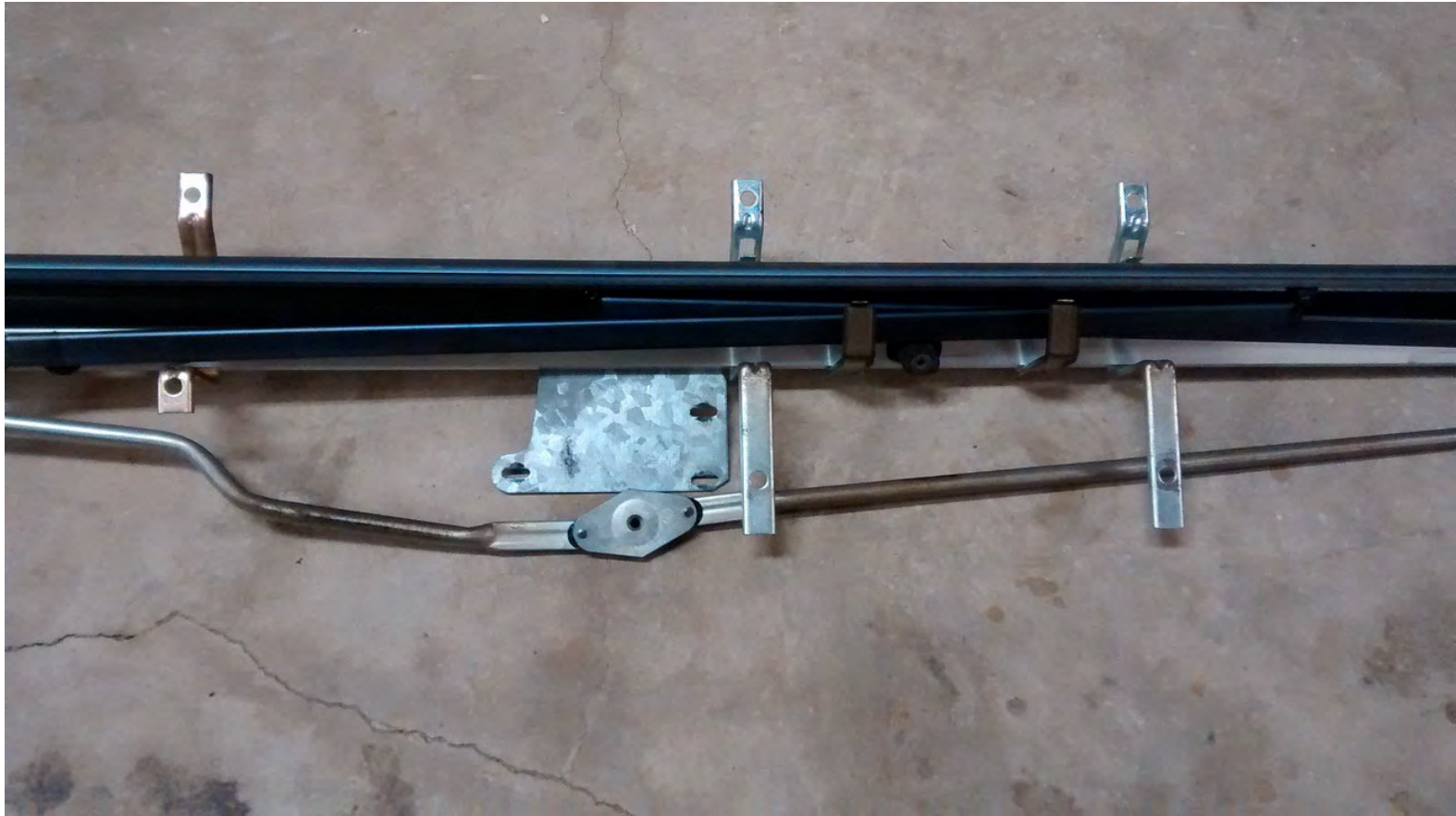
-Package shelf removed.
Ready to remove sunshade
assembly. Arrow 1 points to
3rd brake light connector.
Arrow 2 points to sunshade
motor connector.



-Sunshade removed. 3 each
10mm hex-head nuts must
be removed from under
shelf in the trunk. Locations
circled.



Remove one each shaft Torx bolt to release swing arms. Remove three each Torx bolts to release motor mechanism. NOTE: New mechanism may require an adaptor (included with new part) to fit the original swing arms.

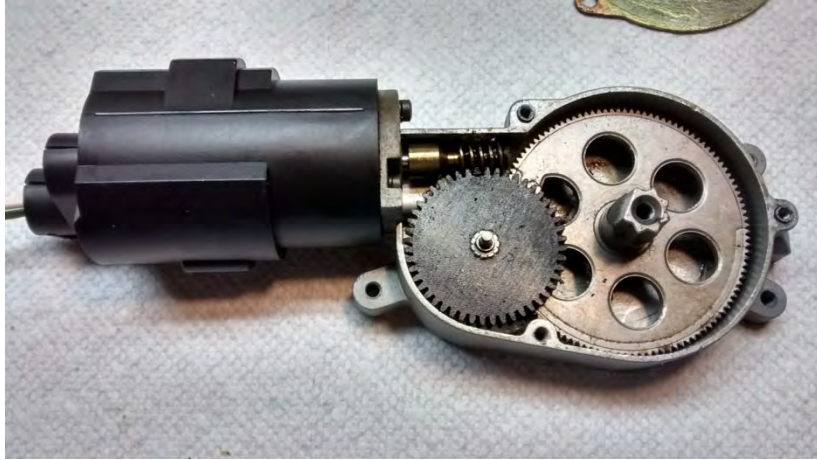


Now is the time to apply a high-quality long-lasting lubricant to all pivot points, bearings, and sliding surfaces.



-Circles indicate plastic clips that will break and the brackets underneath will separate from the backing. Ovals and red line indicate where the package shelf will separate into two pieces. Old age takes its toll. Use a hot-glue gun or industrial adhesive (hardware store in adhesives section) to rebuild shelf. I recommend the industrial adhesive although it will require 12 to 24 hours to set.

ASSEMBLY IS REVERSE OF DISASSEMBLY



-Root cause: Large gear is strongly spring-loaded to rotate clockwise placing large load on shaft bearing of intermediate gear.

Arrow below shows bearing in housing that actually elongated enough that the intermediate gear tilted and caused the gear teeth between it and the large gear to jam.

-This photo is after I attempted to use hammer and punch to “mold” bearing back into shape. No success.

