

Remove and replace trunk/boot soft-close motor - Mercedes-Benz W205 (2014-2021)

This guide is for the W205, but many other models use this same motor
(<https://www.autohausaz.com/pn/MB-2047500060>)

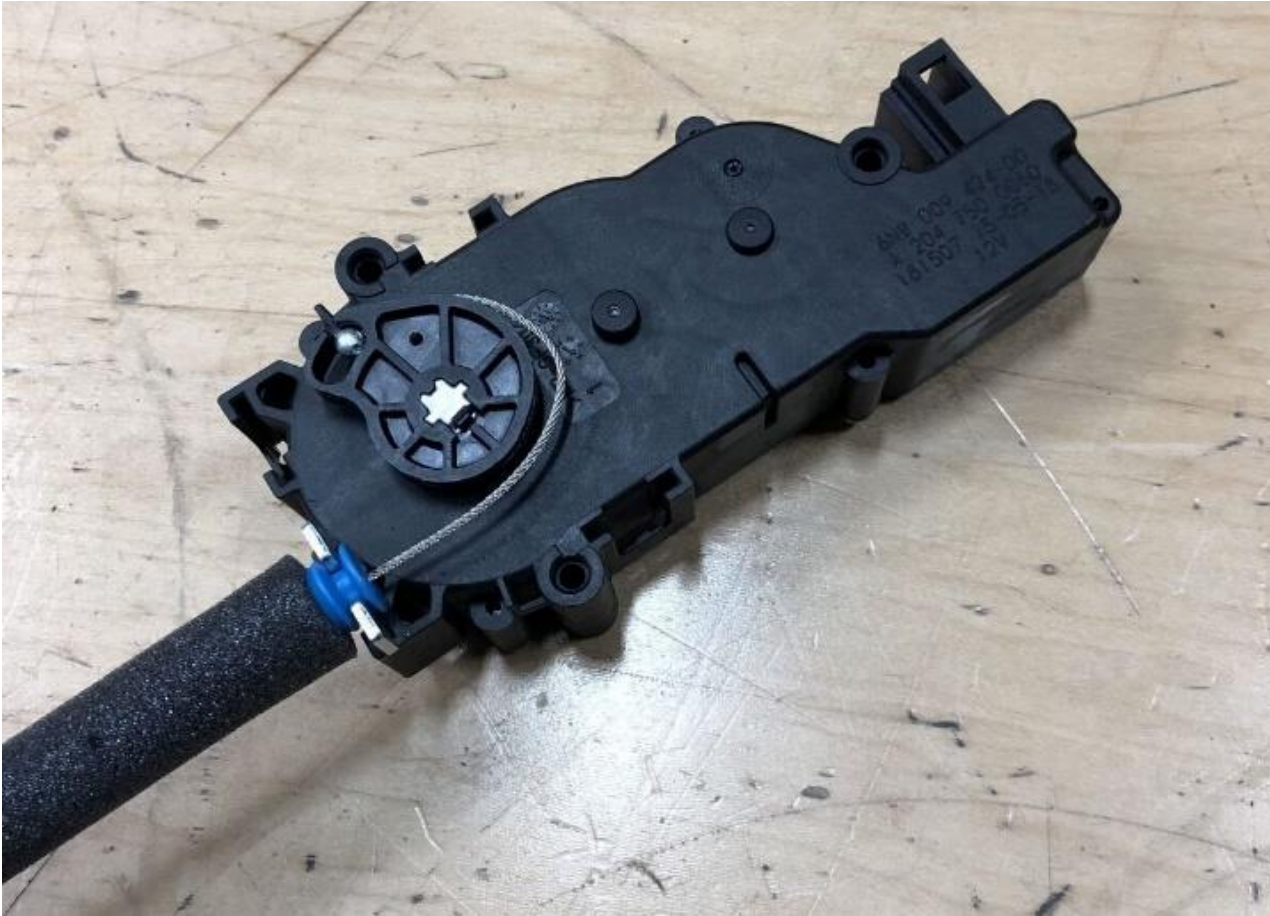
The issue. Power assist trunk / boot does not fully shut, leaving this unsightly gap:



Thanks to this post for the picture:

<https://mbworld.org/forums/c-class-w205/793989-w205-c300-2018-trunk-soft-assistant-problem.html>

The likely culprit. This motor is engaged when the trunk/boot lid has finished closing, and pulls it fully shut:



Here is how to diagnose and replace that motor.

Tools needed

- Replacement motor (I found mine on ebay, part number A 204 750 0060 / A2047500060)
- Trim removal tool
- Torx screwdriver
- Needlenose pliers
- Flashlight
- Multimeter and some spare wire (optional)

1. Remove lower edge of trunk

a) Remove plastic rivets



I found this to be the most difficult part. I pried the rivet a bit with the trim removal tool, once they were partially extracted, I used needlenose pliers to grab them and pull them out.

b) Once the 2 black rivets are out, pull up hard on the trunk piece and it will pop out. There are 4 white rivets that hold it down.

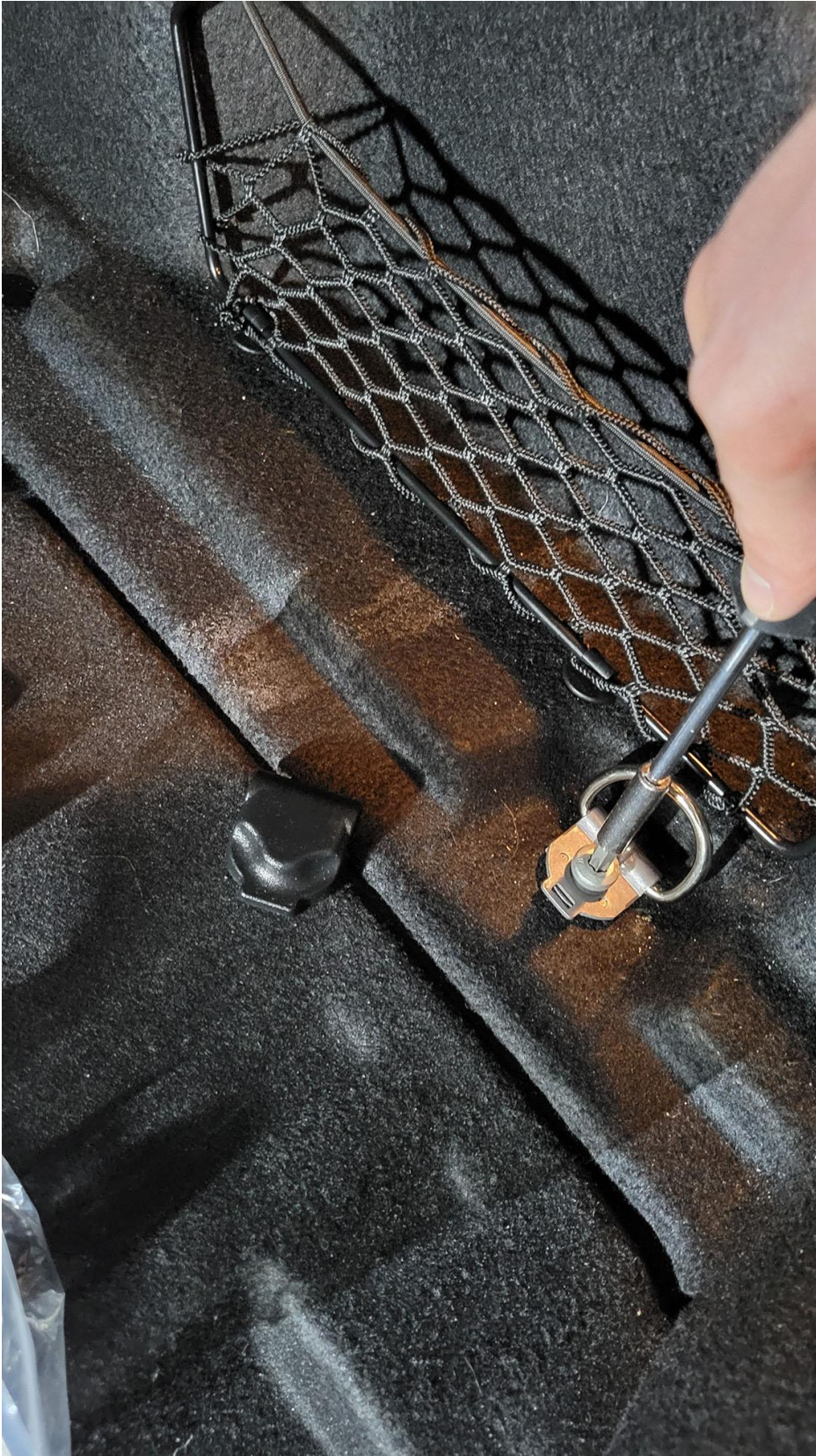


Now you can see the mechanism that gets pulled by this wire encased in foam. The wire leads to the failed component that we'll be replacing.



2. Gain access to behind the trunk lining

a) Remove the tie-down latch with torx screwdriver (plastic top easily pops off)



b) Remove plastic hanger/fastener



c) Pull back on trim to reveal motor unit. You may have to use a trim removal tool to pry it free.



d) The motor is contained in a plastic and foam enclosure held on by an orange rivet

e) The enclosure can slide to detach from the orange rivet. I also detached the power cable.

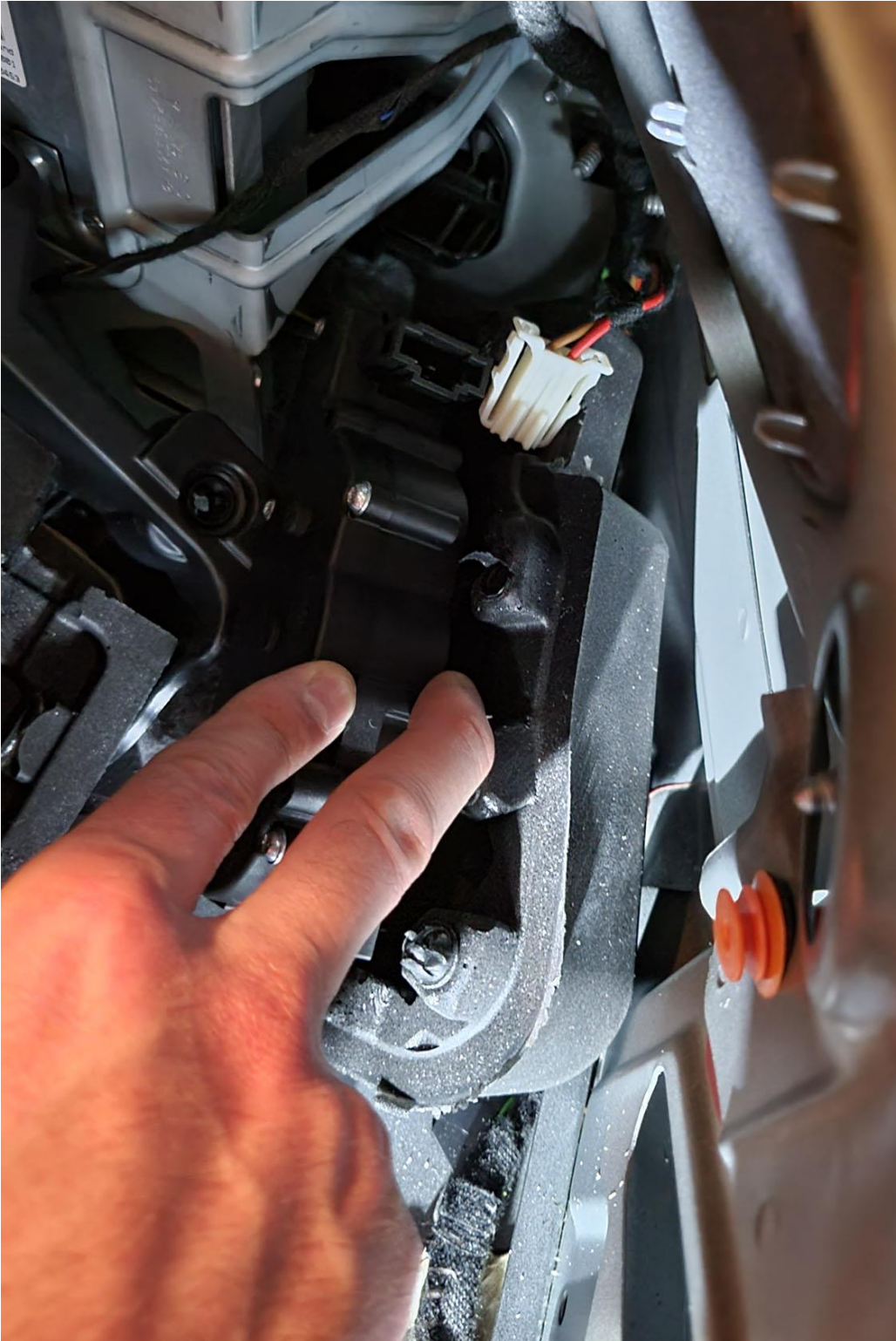
3. Diagnosing, testing for power:

At first I wasn't sure if the motor was faulty, or if it wasn't getting power to do its job. Or, the cable may have become dislodged over time. **Skip to step 4** if you want to just replace the unit without testing it.

a) The motor unit is in a foam enclosure held on by an orange rivet, you should be able to pull up on the unit and it will release from the orange rivet. Then you can pry out the orange rivet with a trim removal tool.



b) Disconnect the power cable.



c) Fold down the right rear seat.

d) I'll be running some wire from the power cable to my multimeter, so I can read the multimeter from the back seat while the trunk closes. I connected some wire as shown to the trunk motor's power source, and ran it to my multimeter.





e) As the trunk closes, watch for the multimeter to show 12 volts. This means the soft-close motor is getting power to perform the soft-close. Now we know it must be a faulty motor, assuming the cable running to the latch is attached properly.

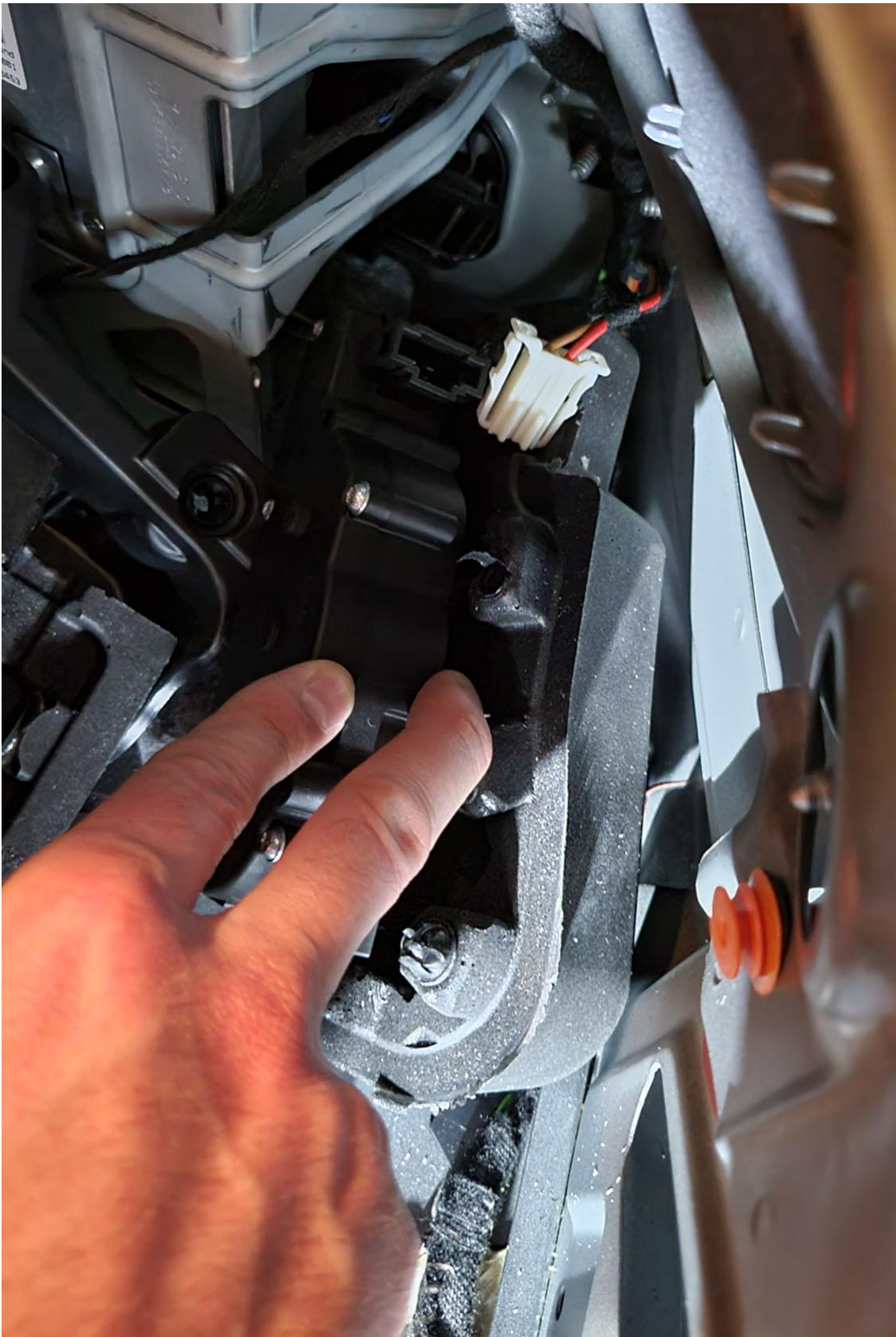
<https://streamable.com/4vnlvn>

4. Remove and replace the faulty motor.

a) The motor unit is in a foam enclosure held on by an orange rivet, you should be able to pull up on the unit and it will release from the orange rivet. Then you can pry out the orange rivet with a trim removal tool.



b) Disconnect the power cable.



The “ball bearing” end of the wire detaches easily from the unit, along with the blue piece holding it in place



b) Attach the cable to the new motor (the cable should wrap around, and the blue piece should snap into place as shown)



c) Connect the power cable and seat the motor into the plastic and foam enclosure

d) Pry the orange rivet out from the frame of the car, attach it to the motor enclosure, then push the motor unit with the rivet back into the frame. My apologies for not taking a pic with the rivet seated in the motor casing, but hopefully it's intuitive. Red arrow shows where the rivet should go.



5. Test it

- a) Make sure none of the trim you removed is in the pathway of the trunk closing
- b) Close the power trunk and see if it fully soft-closes. Please excuse the dirty car

<https://streamable.com/mx5i96>

6. Re-install trunk lining

- a) Make sure the lining goes fully under the rubber trunk trim
- b) Re-attach the hanging clip, the tie-down latch, and plastic covering
- c) Re-attach lower edge of trunk, make sure all 4 rivets click back into place
- d) Make sure the rubber trim is over the edge of this trunk piece. I used a trim removal tool to run along this edge.



e) Re-attach the 2 plastic rivets into the trunk piece



Done!