

Instructions for Installation of Metal Gear and Hi-Torque Motor for 2015+ GM SUV's including Tahoe, Suburban, Yukon, Denali, Acadia, Traverse, Enclave and Escalade.

You can buy this gear and motor assembly here :

<https://www.gruvenparts.com/gruvenparts-com-strengthened-folding-mirror-gear-for-2015-gm-trucks/>

These gears and motors will fit both the passenger and drivers side power folding mirrors. Its not required to replace as a set but the GruvenParts motors will move the mirrors faster than the weak GM motors.

1. It is not required to remove the entire mirror assembly from the vehicle when accomplishing this repair. The following pictures show the mirror assembly removed from the vehicle only for purposes of clarity. Below the drivers side (LH) mirror assembly is shown.



2. On the Bottom side of the mirror is a small access panel towards the inboard end of the mirror assembly. This panel will be removed to access the mirror assembly lock which connects the mirror assembly to the vehicle frame.



Small plastic lever being used to remove access panel. Don't use metal as it will mar the finish.



3. Access panel removed. Put the access panel aside for now.



4. Remove top outer trim panel using plastic lever (trim tool). This cover will separate from the mirror housing by gently prying as shown in the picture below while pulling out on the cover.

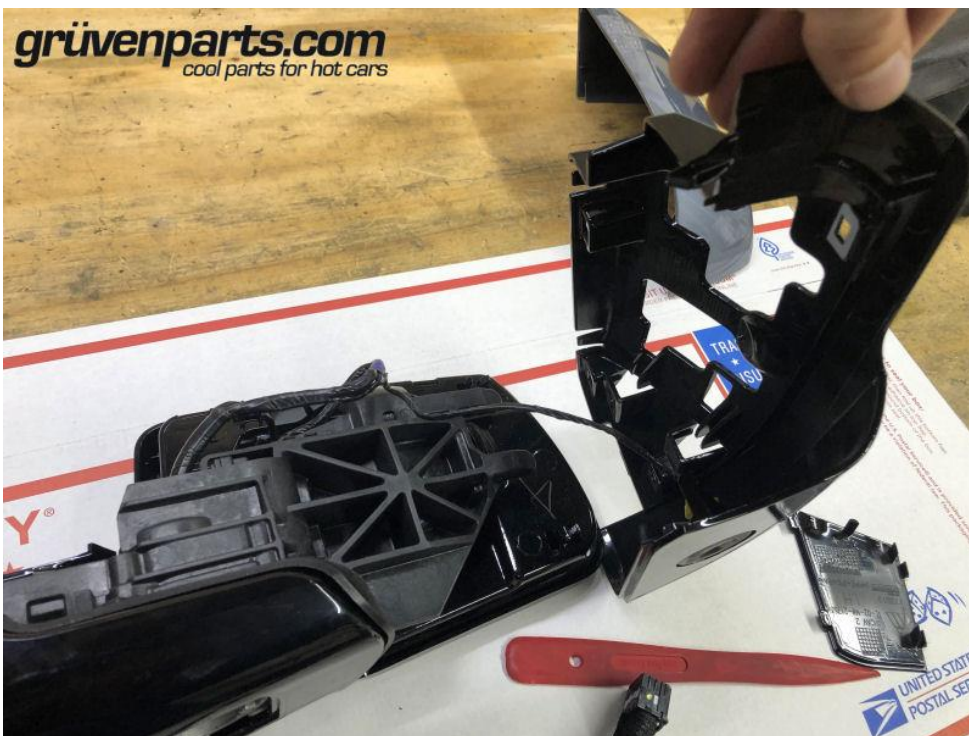


5. Top Cover removed.





6. Now remove the underlying trim cover on the fwd side of the mirror. This has a few tabs but easily comes off. Note the 2 little fingers on the outboard end. The trim cover will rotate off as shown.



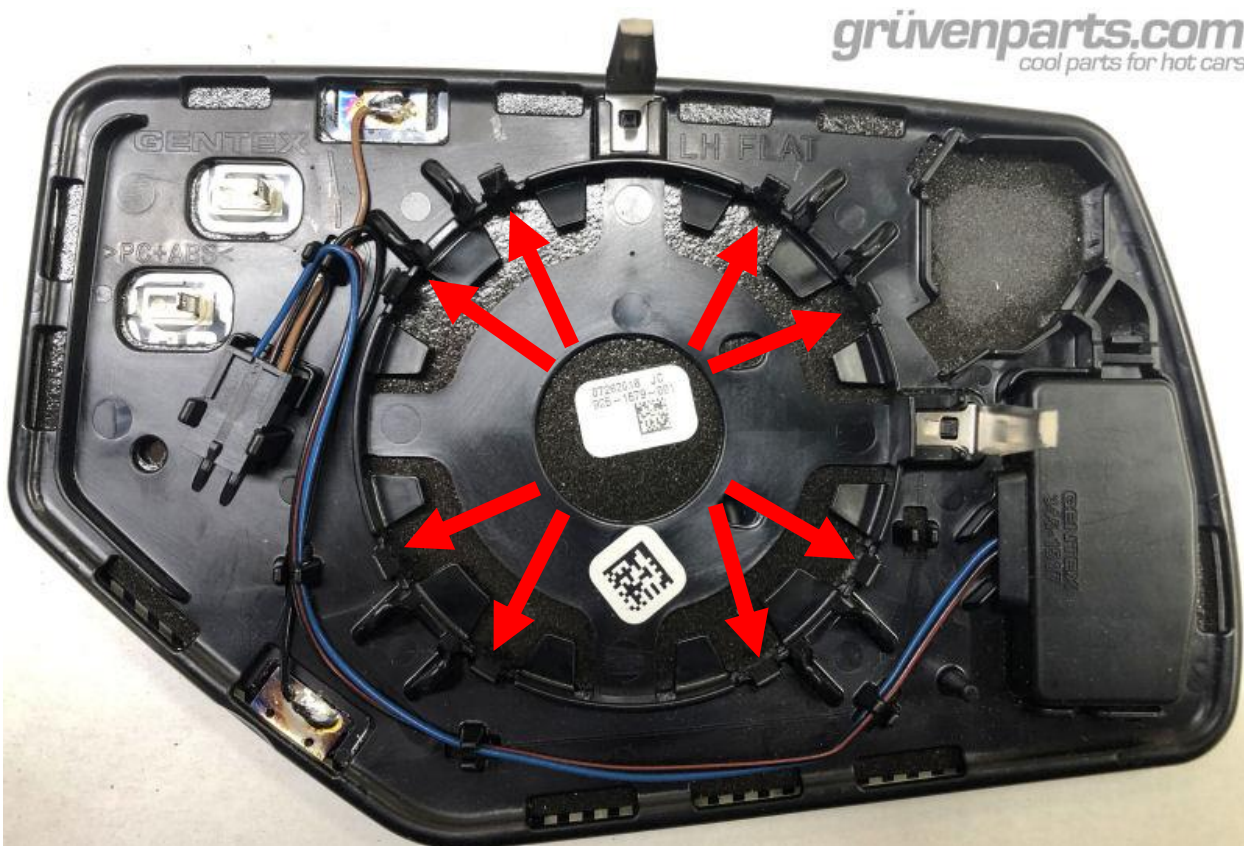
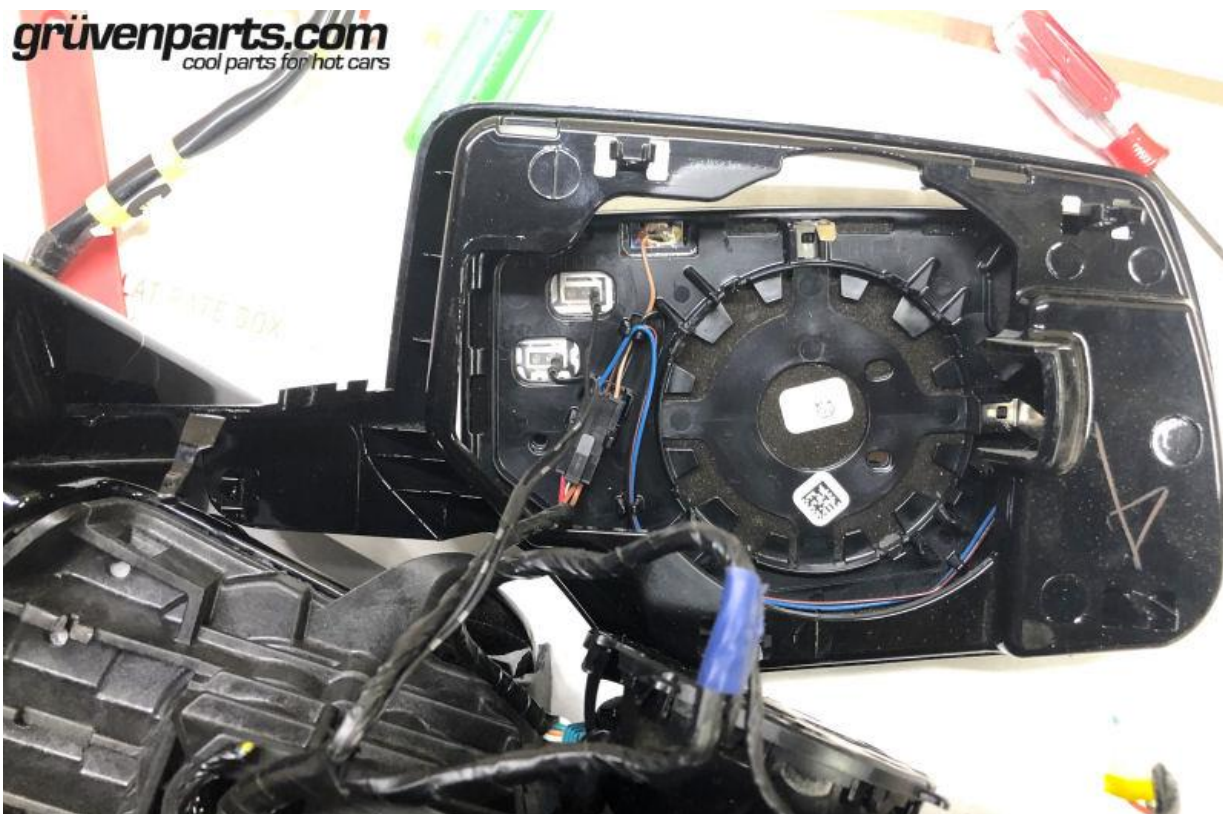
7. Unplug the electrical connector for the puddle light (if so equipped).



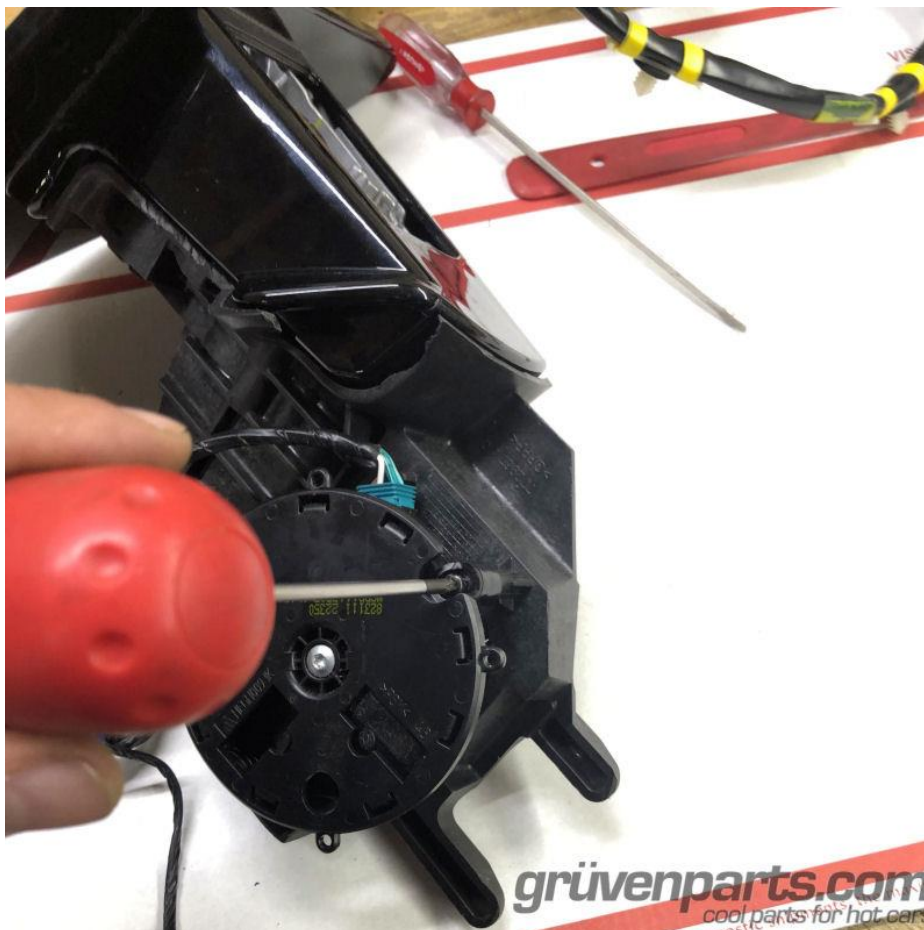
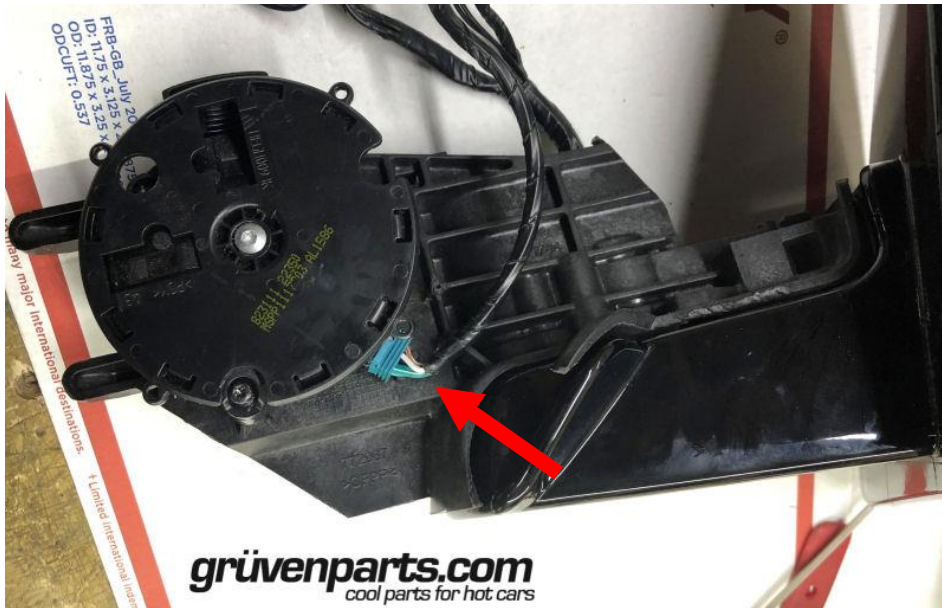
8. Use a thin metal screwdriver from the front side pushing backwards and upwards to release the mirror glass. There are 8 tabs you can see highlighted in the pictures below. You need to disengage 3-4 of these tabs so work the top ones as those are accessible easiest. Press the tabs outward and up, away from the center of the mirror and gently pull the mirror glass away from the mirror housing. Don't move it too far, there are wires connected to the glass which control the turn signal and mirror defroster. Have a helper catch the glass so you are sure not to break it. Unplug all the wires from the mirror and store the mirror glass in a safe place for now.







9. Unplug the mirror glass adjuster electrical connector and remove the three T-15 Torx screws which hold the mirror glass adjuster unit to the mirror frame.







10. Working from the bottom of the mirror assembly where we removed the access cover in step 3, remove the T-15 torx screw.



11. Insert the unlock tool into the mirror assembly and rotate it counter clockwise using a 22mm socket about 1/6 turn to release the mirror assembly from the frame.



12. Remove the three T-15 torx screws which hold the power fold drive unit into the mirror assembly.





13. Remove the power fold drive unit from the mirror assembly. You may need to use a thin flat head screw drive to pry it out.



14. Use a razor or small box cutter to go around the perimeter of the power fold drive unit. They "heat seal" this unit to keep moisture out.



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16. After installation of the replacement motor and gear, apply a thin bead of RTV sealant around the perimeter of the case halves. Reassemble the case halves and tighten down the T-15 screws. The rest of the installation is the reverse of removal.