



HYUNDAI Technical Service Bulletin

Group	CAMPAIGN
Number	09-01-023
Date	JULY, 2009
Model	AZERA (TG)

Subject
**REAR POWER SUNSHADE NOISE OR BINDING
 (SERVICE CAMPAIGN T87)**

CIRCULATE TO:	<input type="checkbox"/> GENERAL MANAGER	<input checked="" type="checkbox"/> PARTS MANAGER	<input checked="" type="checkbox"/> TECHNICIAN
<input checked="" type="checkbox"/> SERVICE ADVISOR	<input checked="" type="checkbox"/> SERVICE MANAGER	<input checked="" type="checkbox"/> WARRANTY MGR	<input type="checkbox"/> SALES MANAGER

IMPORTANT: DEALERS MUST PERFORM THIS CAMPAIGN ON ALL AFFECTED VEHICLES WHENEVER AN AFFECTED VEHICLE IS IN THE SHOP FOR ANY MAINTENANCE OR REPAIR.

IMPORTANT: WHEN A VEHICLE ARRIVES AT THE SERVICE DEPARTMENT, ACCESS HYUNDAI MOTOR AMERICA'S "WARRANTY VEHICLE INFORMATION" SCREEN VIA WEBDCS TO IDENTIFY OPEN CAMPAIGNS.

DESCRIPTION:




Azera rear power sunshades may experience abnormal noise/binding or shaky arms during operation. This bulletin describes the service procedures that correct the condition. The gear replacement and arm stud bolt repair apply to all affected vehicles.

This bulletin describes the procedures for gear replacement and arm stud bolt repair.

APPLICABLE VEHICLES:

- Model: AZERA (TG) with rear power sunshade
- Applicable vehicle production date range: From June 21, 2006 to December 20, 2006

PARTS REQUIRED:

PART NAME	PART NUMBER	PROCEDURE	PHOTO
REAR CURTAIN MOTOR PLASTIC GEAR & SCREW	85690-3L114QQH	GEAR REPLACEMENT	
THREAD LOCKER APPLICATOR	85690-3L113QQH	ARM STUD BOLT REPAIR	
THIN WRENCH	85690-3L111QQH		

NOTE: Thin Wrench will be directly shipped to dealers separately from HMA and dealers do not need to order it.

SERVICE PROCEDURE:

1. Using the procedure provided in the Azera Shop Manual, remove the rear sunshade assembly from the vehicle.



HYUNDAI Technical Service Bulletin

Group

CAMPAIGN

Number

09-01-023

2. Place the assembly on a flat work surface and extend the shade to approximately 50% of its full travel by using a 12v battery or 12v power supply connected to the motor leads as follows:

- (+) to the motor red wire and (-) to the motor black wire to extend the shade.
- (-) to the motor red wire and (+) to the motor black wire to retract the shade.



NOTE: The motor gears are held under tension by an internal spring. Extending the shade to approximately 50% of it's full travel will release the tension from the spring and ease removal and installation of the gears.

NOTE: Care should be taken to avoid damaging or staining the sunshade fabric while extended.

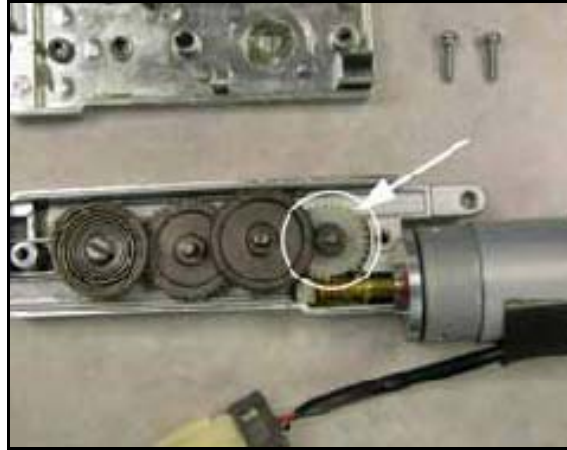


3. Begin disassembly of the motor gear box by using a heat gun to soften the thread locker used to retain the (2) screws. Heat should be applied to the (2) screws and the immediate surrounding area at least for 40 seconds to insure freeing the screws from thread locker material.

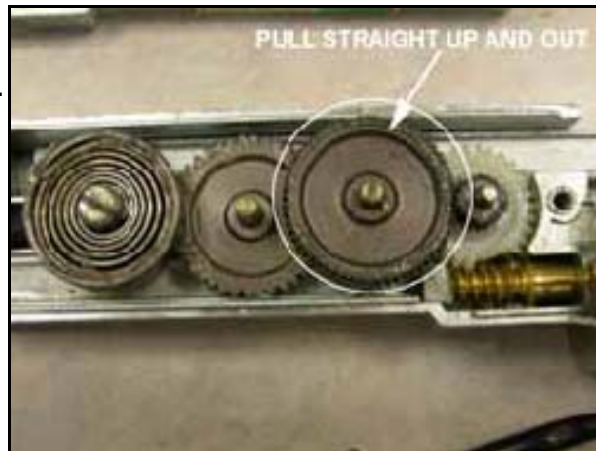
NOTE: The motor gear box has been removed from the sunshade assembly for illustrative purposes only. It is NOT necessary to remove the motor gear box from the sunshade assembly for this procedure.



4. Remove the motor gear box top cover and locate the plastic drive gear attached to the brass worm gear as shown.



5. Remove the 2nd drive gear to access the plastic drive gear as shown. Gear is removed by pulling it straight up and out.





HYUNDAI Technical Service Bulletin

Group

CAMPAIGN

Number

09-01-023

6. Remove the old plastic gear by pulling it straight up and out.



7. Apply a small amount of assembly lube or grease to the new plastic gear (p/n 85699-3L110QQH) and install it as shown.



8. Re-install the 2nd drive gear as shown.

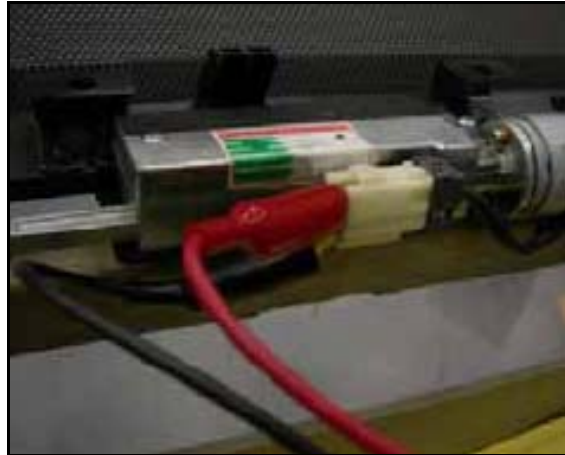


9. Ensure that all gears are properly meshed and re-assemble the motor gear box in the reverse order of installation.

NOTE: A non-permanent thread locking compound should be used on the (2) motor gear box enclosure retaining screws.

10. Place the assembly on a flat work surface and extend the shade to 100% of it's full travel by using a 12v battery or 12v power supply connected to the motor leads as follows:

- (+) to the motor red wire and (-) to the motor black wire to extend the shade.
- (-) to the motor black wire and (+) to the motor red wire to retract the shade.



NOTE: Care should be taken to avoid damaging or staining the sunshade fabric while extended.



11. Press the outer nut of the motor arm stud as shown in the photo. If the revealing gap shows less than 2-3 threads, then use the thin wrench to loosen the inner nut, until revealing 2-3 thread space. In the meantime, you still have to press the outer nut as photo shows.

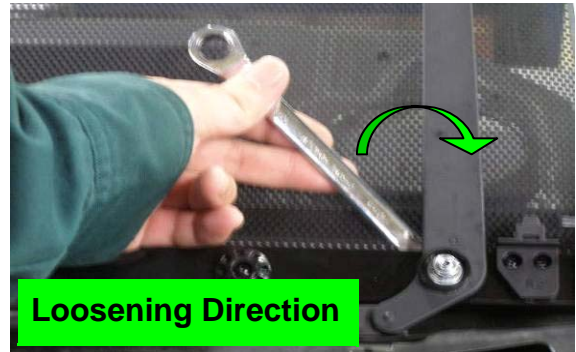




HYUNDAI Technical Service Bulletin

Group	CAMPAIGN
Number	09-01-023

NOTE: If the revealing gap already shows more than 2-3 threads, please skip this step.



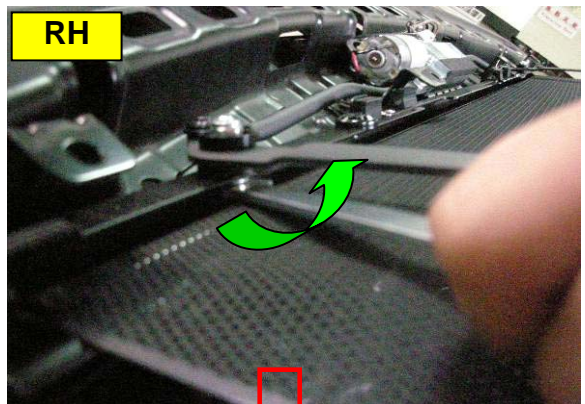
12. Press the outer nut, and inject thread locker on stud bolt revealing threads.

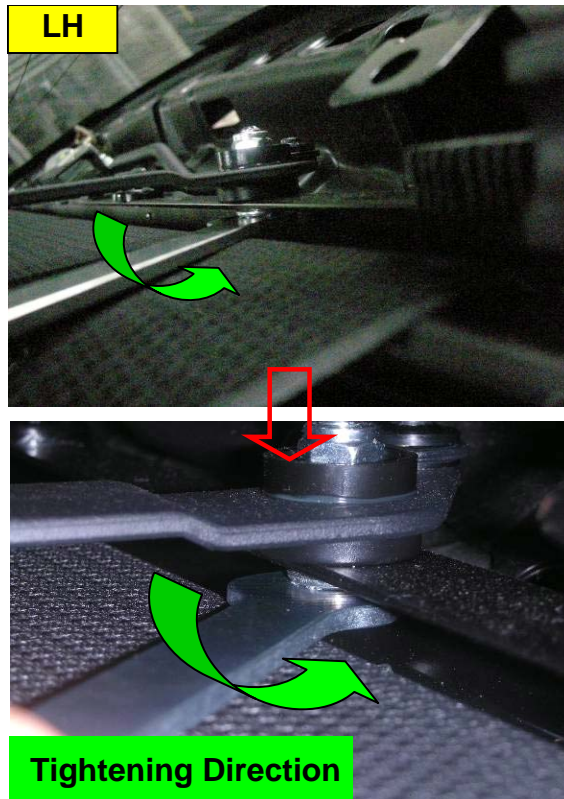
NOTE: Care should be taken to avoid damaging or staining the sunshade fabric with the thread locker while extended.



13. Tighten the inner nut on the stud bolt and operate the sunshade around 5 times.

NOTE: Please inform customers to not operate the rear sunshade for a least 24 hours to allow the thread locker to dry completely.





GEAR REPLACEMENT & ARM STUD BOLT REPAIR COMPLETION

- Re-install the sunshade assembly into the vehicle in the reverse order of removal.
- Test the sunshade for proper operation.
- Procedure complete.

WARRANTY INFORMATION:

OP CODE	OPERATION	OP TIME
90B015R0	REAR CURTAIN MOTOR PLASTIC GEAR REPLACEMENT & ARM STUD BOLT REPAIR	1.1M/H

NOTE: Submit claim using the Campaign Claim Entry Screen.