

## **TECH SERVICE BULLETIN: RE-TIMING Power Spoiler Sunroofs**

The following procedure should be used for re-timing the drive mechanism on Most Spoiler Sunroofs. Re-timing will generally fix most minor drive mechanism chatter, leaks and wind noise. *If this procedure fails to resolve the problem, refer to technical staff.*

1. Operating the sunroof normally, slide the glass open part way. Do not open fully. *The glass must be driven past the vent only position, revealing at least 2 inches of open space in front.* If the sunroof will not slide back at least 2 inches under its own power, DO NOT PROCEED - refer to technical staff.
2. Remove the motor from the sunroof.
3. For H300L/M, Skyroof LS, disengage the drive gear from the cables by removing the gearbox cover plate and removing the gear. NOTE: H300L/M & Skyroof LS drive the gear from a splined shaft on the motor. The main drive gear is part of motor assembly on Sport, X48, X1000, ASI300/450, therefore this step is not neccessary for those models.
3. Gripping the front edge of the glass, gently push the glass open until both left and right sides stop. Verify that the glass is fully open. Verify that the leading edge of the glass panel is parallel to the frame leading edge.
4. Check screws on cable guide housing (bright casting that motor engages). If loose, check [re-insert] cable guide tube ends, apply Loc-Tite to screw threads and re-tighten.  
*Additional for Sport Spoiler:* Check left and right cable guide tube ends. Clamps should securely hold cable guide tube ends in place. If not, remove clamp, bend straight (or replace) and reinstall clamp over guide tube ends. *Caution - overtightening screws will strip threads.*
5. Re-install the motor [and drive gear components]. Drive the sunroof open and closed several cycles.
6. Verify that the sunroof is operating properly and that the problem has been resolved. *If not resolved, refer to technical staff.*

**NOTE:** Suitable screw retention agent such as Loc-Tite should be applied to all motor mount and gearbox screw threads to prevent screws from working loose during sunroof operation.