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This Service Information bulletin supersedes SI M54 03 08 **dated July 2009**.

**NEW** designates changes to this revision

#### **SUBJECT**

### **Sunroof Will Not Open at High Temperatures**

#### **MODEL**

R55, R56 (Cooper and Cooper S, Cooper Clubman and Cooper S Clubman)

#### **SITUATION**

At high ambient temperatures, typically above 90 degrees, the sunroof may not open from the fully closed position. When this occurs, the rear edge of the glass panels will rise by about 10mm and then either stall in that position or close again.

Assisting the glass by pressing upward on it or allowing the sunroof to cool slightly will restore normal function.

#### **CAUSE**

The blocking protection feature of the sunroof drive is being activated due to the presence of higher than expected frictional forces in the sunroof cassette. Such forces are only present at very high temperatures, and caused by a lack of proper lubrication along with incorrectly adjusted glass panels.

#### **CORRECTION**

Adjust the glass panels and perform the recommended lubrication procedures.

It is not advised to replace the sunroof cassette for this situation.

#### **PROCEDURE**

If the sunroof is binding at a position other than when it is first starting to open or at significantly lower temperatures, a sunroof cassette problem may be present. Normal diagnostic procedures should be followed for these cases.

1. Perform a short test and ensure that no charging system or battery-related problems are present.

**NOTE:** If the battery is not fully charged, a similar sunroof problem may be present.

2. Remove both the front and rear glass panels per Repair Instruction RA 5410240 (front) and RA 5410250 (rear).
3. Measure the gap on the left and right side of the cassette, between the rear edge of the wind deflector base and the leading edge of the sliding mechanism.
  - a. If the gap on the left side is equal to that of the right side, continue to step 4.
  - b. If the gap is not equal, remove the sunroof drive per Repair Instruction RA 6761515.
  - c. Move one of the sliding mechanisms by hand until the spacing is equal on the left and right side.

- d. Install the drive and operate the sunroof to ensure the sliders move together.
4. Use Kluberplex adhesive spray grease to thoroughly coat and lubricate the areas identified in the attached document.
5. Install the glass panels and adjust per Repair Instruction RA 5413002 with the following exceptions:
  - a. The front edge of the front panel should be 0.5 – 1.5mm lower than the roof line.
  - b. The rear edge of the front panel should be 0.5 – 1.5mm higher than the front edge of the rear panel.
  - c. The rear edge of the rear panel should be 0.5 – 1.5mm higher than the roof line.
6. Do not replace the perimeter seal unless it is damaged.
7. Initialize the sunroof with the engine running per Repair Instruction RA 5400...
  - a. Reinitializing the sunroof is essential to the effectiveness of this repair.
  - b. With the sunroof fully closed, hold the sunroof close switch at the first detent for approximately 20 seconds. Continue to hold until the sunroof completes one full cycle.
8. Cycle the sunroof at least 5 times to allow the lubricant to penetrate all moving parts of the sunroof cassette.

#### PARTS INFORMATION

Part Number	Description	Quantity
83 22 0 397 761	Kluberplex adhesive grease	1
51 16 2 756 511	Sunroof panel screws	12

#### WARRANTY INFORMATION

Covered under the terms of the MINI New Vehicle Limited Warranty.

**Defect Code:** NEW 54 12 22 34 00

Labor Operation:	Labor Allowance:	Description:
54 10 240*	Refer to KSD	Removing and installing or replacing glass panel, front
+54 10 750	Refer to KSD	Removing and installing or replacing glass panel, rear
+54 13 502	Refer to KSD	Adjusting both slide/tilt sunroof glass panels
+54 99 000	2 FRU	Work time to lubricate the sunroof cassette

\*Main Work - use this labor operation number when this is the only repair being

performed, or if this is the main repair when performed along with other repairs at the same time. If this is not the main repair, refer to KSD for the associated (+) labor operation code.

Sublet		** Reimbursement of up to the amount listed may be charged to sublet
Code	\$19.00	code 4 for the Adhesive Grease Spray (P/N 83 22 0 397 761) required to
4**		perform this repair. Claiming this part number outside of sublet code 4
		will result in a delayed or denied claim payment.

## ATTACHMENTS

view PDF attachment [M540308Lubrication Procedure](#).

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