



SIB 51 24 19 CRACKING NOISE FROM DASHBOARD TRIM

MODEL

| E-Series | Model Description |
|----------|--------------------------|
| F90 | M5 Sedan |
| G30 | 5 Series Sedan |
| G32 | 640i xDrive Gran Turismo |

SITUATION

A cracking noise is present from the area of the dashboard trim when heating or cooling the vehicle.

CAUSE

Thermal expansion of the plastic components of the decorative trim causes cracking noises.

CORRECTION

Lubricate multiple points of contact on the decorative trim.

PROCEDURE

Refer to attachment "B51 24 19 Repair instruction decor strip of the instrument panel attachment 1".

PARTS INFORMATION

| Part Number | Description | Quantity |
|-----------------|--|-----------|
| 11 00 7 660 832 | Molykote 111 (100g) | As needed |
| 83 23 0 309 627 | Carbaflo KSP 105 (50g Stiff) | As needed |
| 83 19 2 446 565 | BMW Aerosol Lube & Prot Spray HTL-S (12oz) | As needed |

WARRANTY INFORMATION

Covered under the terms of the BMW New Vehicle Limited Warranty for Passenger Cars and Light Trucks.

| | | |
|---------------------|-------------------|--|
| Defect Code: | 5145900100 | F90 G3x cracking noise of decorative trim instrument panel when cooling |
|---------------------|-------------------|--|

The vehicle is already in the workshop

| Work Pkg | Labor Operation: | Labor Allowance: | Description (Plus work): |
|----------|------------------|------------------|---|
| # 1 | 00 67 543 | 33 FRU | Lubricate decor strip on left and right (Plus work) |

Or:

The vehicle arrives at your center and this work is performed (No other Main work will be performed/claimed during this workshop visit)

| Work Pkg | Labor Operation: | Labor Allowance: | Description (Main work): |
|----------|------------------|------------------|---|
| # 2 | 00 67 033 | 35 FRU | Lubricate decor strip on left and right (Main work) |

Claim Repair Comments

Unless additional related/in conjunction work was required (not addressed and/or included in one of the options provided above), then only reference the SIB number and the work package (Pkg) number performed in the RO technician notes and in the claim comments (For example: B51 24 19 WP 1), unless otherwise required by State law.

And, as needed:

Sublet – Bulk Materials (RO and Claim Comments Required)

| | | |
|----------------------|---------|--|
| Sublet Code 4 | \$15.00 | Reimbursement for the repair-related bulk materials (Do not use the BMW part numbers for claim submission) |
|----------------------|---------|--|

Sublet reimbursement calculation for claiming the applicable repair-related bulk materials (BMW part numbers) is at the dealer net price amount for the quantities used plus your center's handling.

Enter this material cost in sublet and itemize the amount on the repair order and in claim comment section.

Supporting Materials

[picture_as_pdf B51 24 19 Repair instruction decor strip of the instrument panel Attachment 1.pdf](#)

B51 24 19 Repair instruction decor strip of the instrument panel Attachment 1



Customer complaint:

Creaking / cracking noise from the area of decor strip / CID during temperature increase or decrease of the interior.

The noise can be reproduced during the cooling phase / warm-up phase of the interior.

Dealer description:

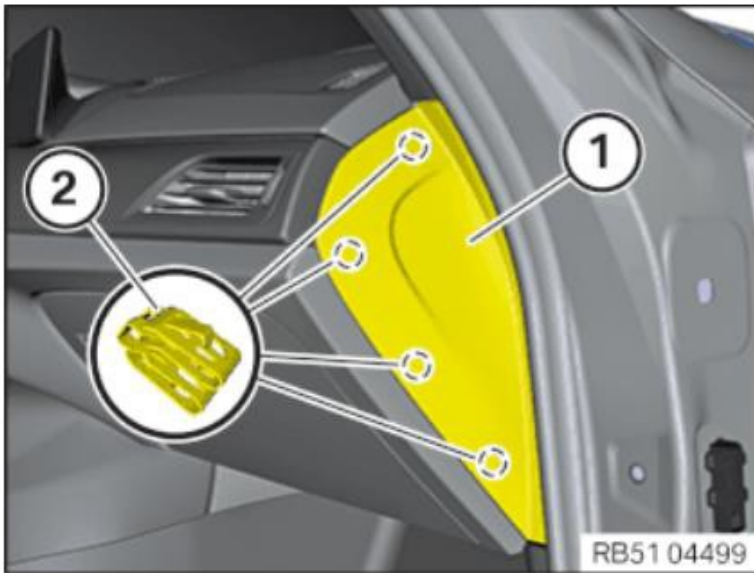
The customer complaint is reproducible. As the interior is cooled down or heated up to a normal level, a creaking, cracking noise at the middle of the instrument panel occurs.



B51 24 19 Repair instruction decor strip of the instrument panel Attachment 1

Remove the side panel on the right instrument panel

REP-TAT-P-5145-01-G30_2

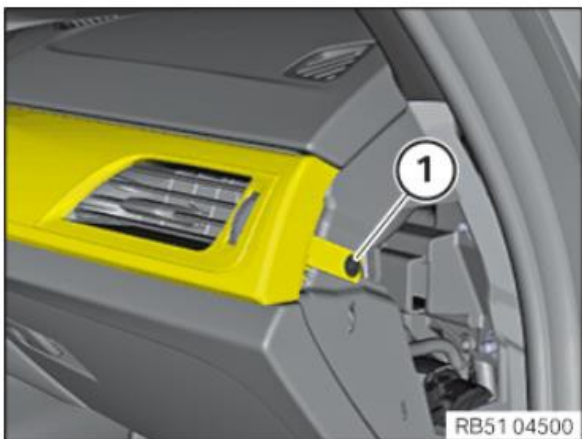


- Unclip and remove the side panel (1) towards the outside from the clamps (2).
- If necessary, unlock associated plug connection and disconnect.

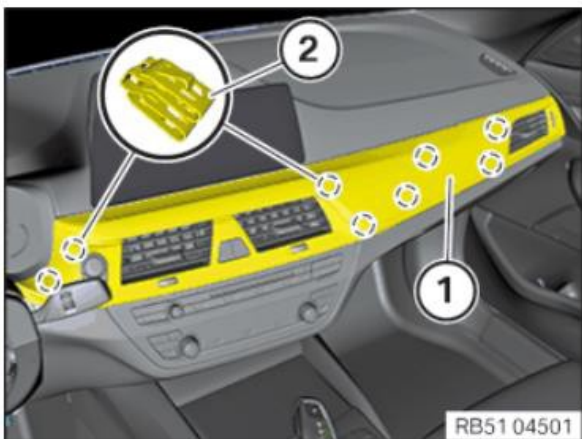
B51 24 19 Repair instruction decor strip of the instrument panel Attachment 1

Remove the finisher on the right instrument panel

REP-TAT-P-5145-01-G30_1



- Loosen screw (1).

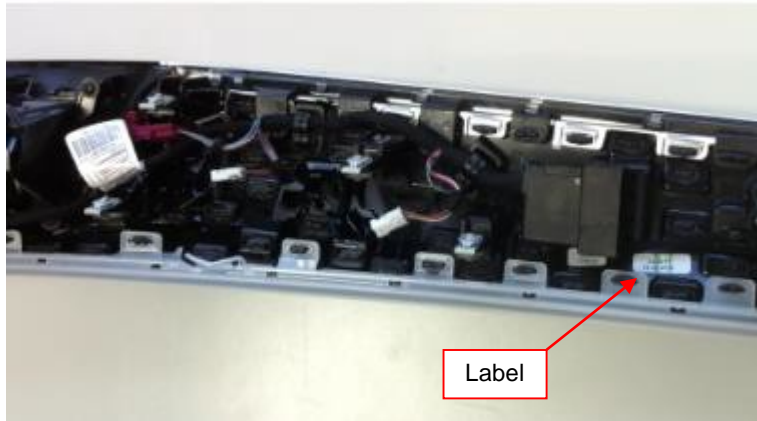


- Unclip the finisher (1) on the clamps (2).
- Unlock associated plug connections and disconnect.

B51 24 19 Repair instruction decor strip of the instrument panel Attachment 1

Info:

Check the production date of the decor strip, referencing the label shown below. The trim must be produced AFTER 3/26/2018. If the production date is before 3/26/2018, replace the trim and continue on. A label with the production date is placed on the back side of the decor strip, just to the side of the main 26 pin harness connector.



B51 24 19 Repair instruction decor strip of the instrument panel Attachment 1

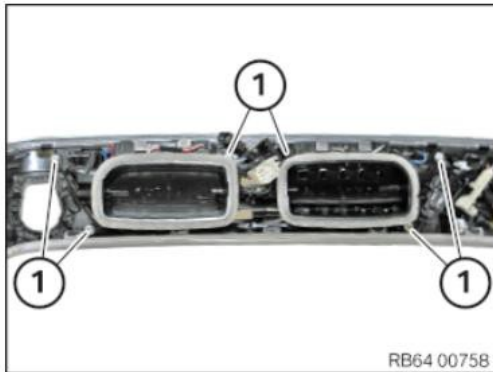


Note: Carefully place the decor strip on a suitable surface.

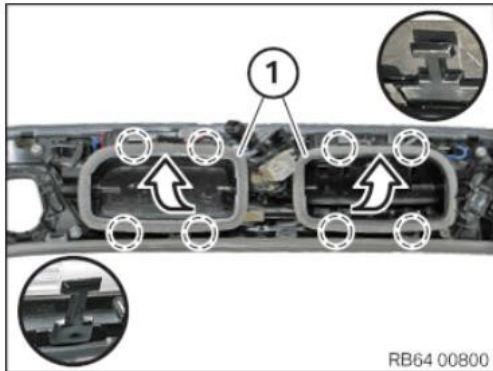
B51 24 19 Repair instruction decor strip of the instrument panel Attachment 1

Removing the centre fresh air grille

REP-TAT-P-6422-01-G11_02



- Loosen screws (1).



- Pull off the cable clip from the fresh air grille.
- Carefully loosen the latch mechanisms and remove the fresh air grille (1) in the direction of the arrow.

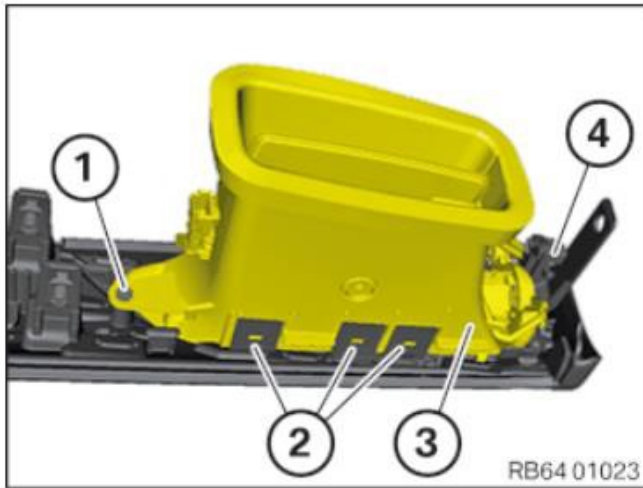
Info:

Depending on the production date, it is possible that the screws on the air vent grille are not available.

B51 24 19 Repair instruction decor strip of the instrument panel Attachment 1

Removing the right fresh air grille

REP-TAT-P-6422-01-G30

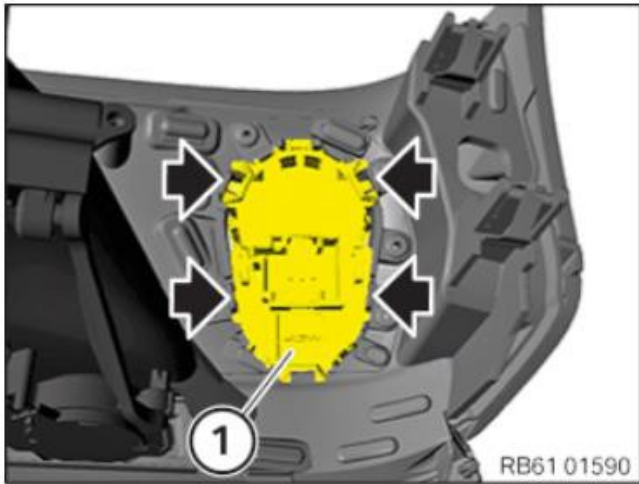


- Loosen the screw (1) if necessary.
- Carefully release the latch mechanisms (2) on the bottom.
- Guide the fresh air grille (3) out of the finisher (4) to the top.

B51 24 19 Repair instruction decor strip of the instrument panel Attachment 1

Removing the START-STOP button

REP-TAT-P-6131-01-G11_12

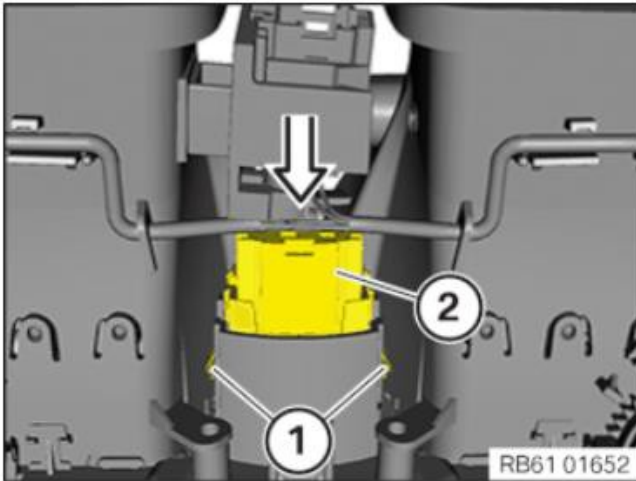


- Push the START-STOP button from the front.
- First loosen the upper latch mechanisms.
- Then loosen the lower latch mechanisms.
- Remove the START-STOP button (1) from the decorative trim.

B51 24 19 Repair instruction decor strip of the instrument panel Attachment 1

Remove the hazard warning switch

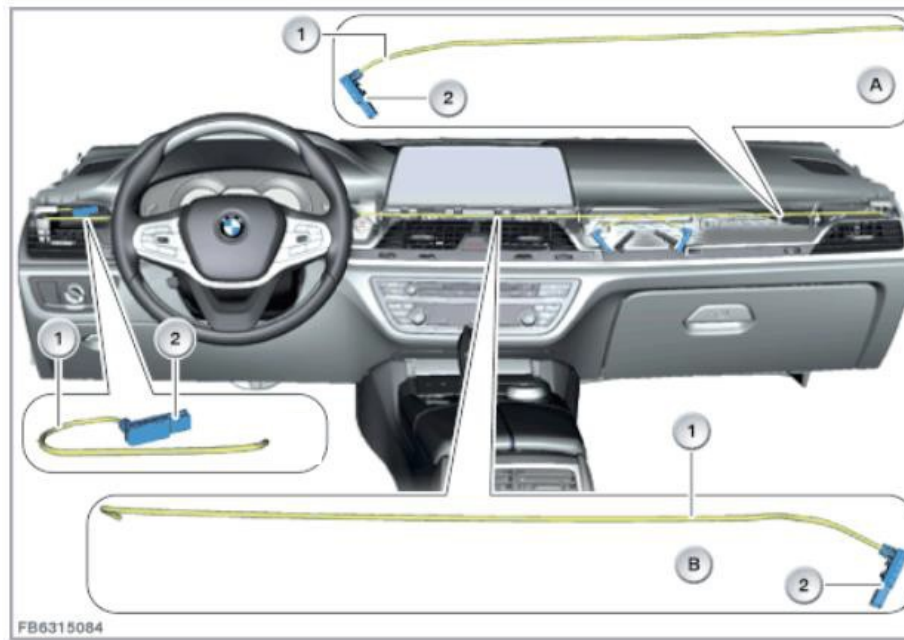
REP-TAT-P-6131-01-G11_13



- Loosen the latch mechanisms (1).
- Press the hazard warning switch (2) out of the trim in the direction of the arrow.

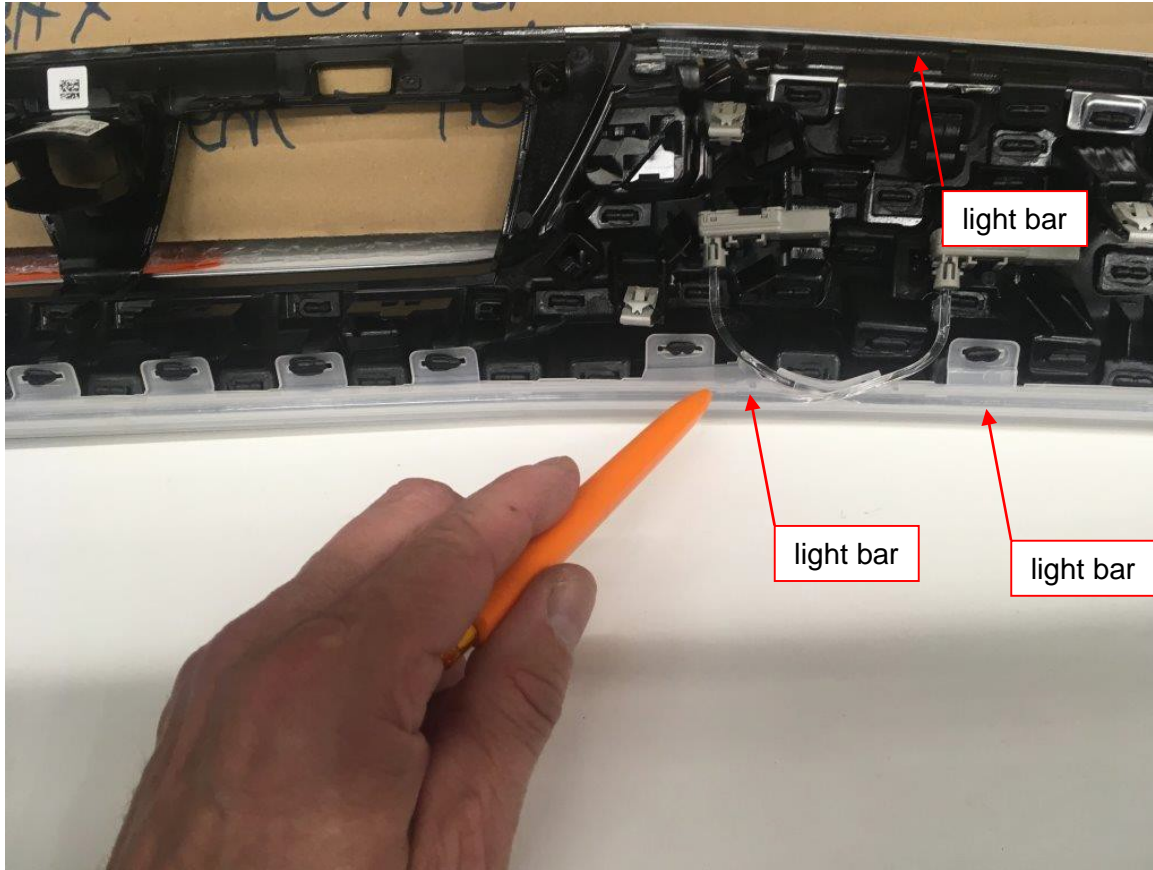
B51 24 19 Repair instruction decor strip of the instrument panel Attachment 1

Disassemble and remove the optical light bars.



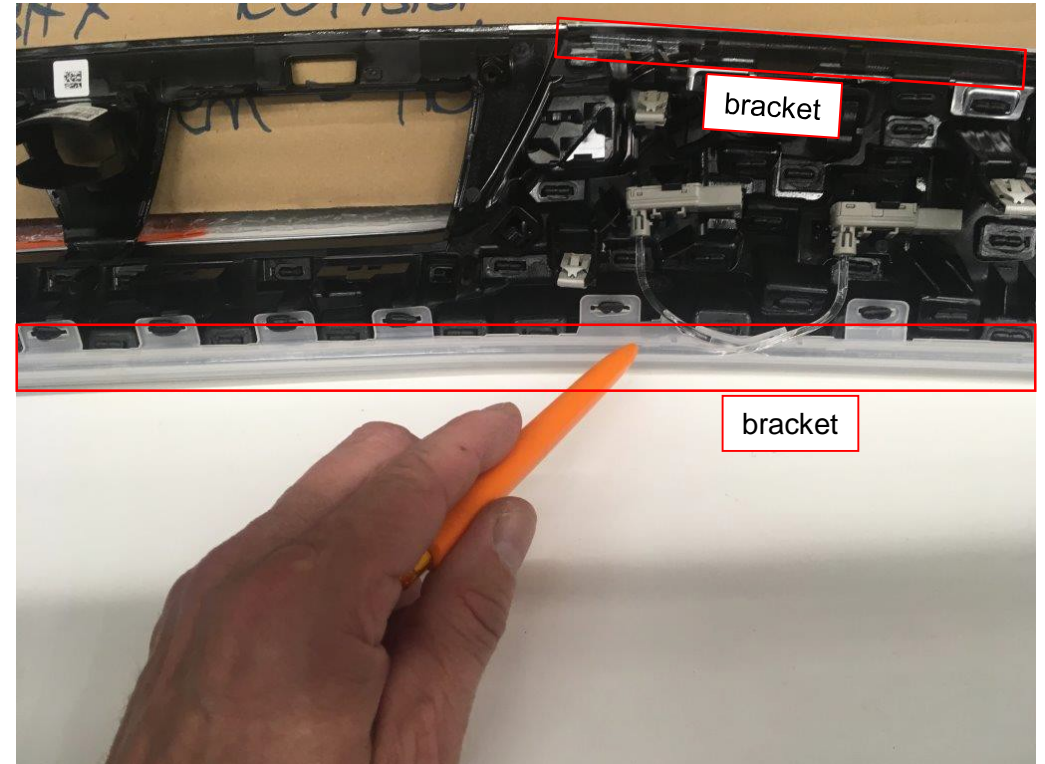
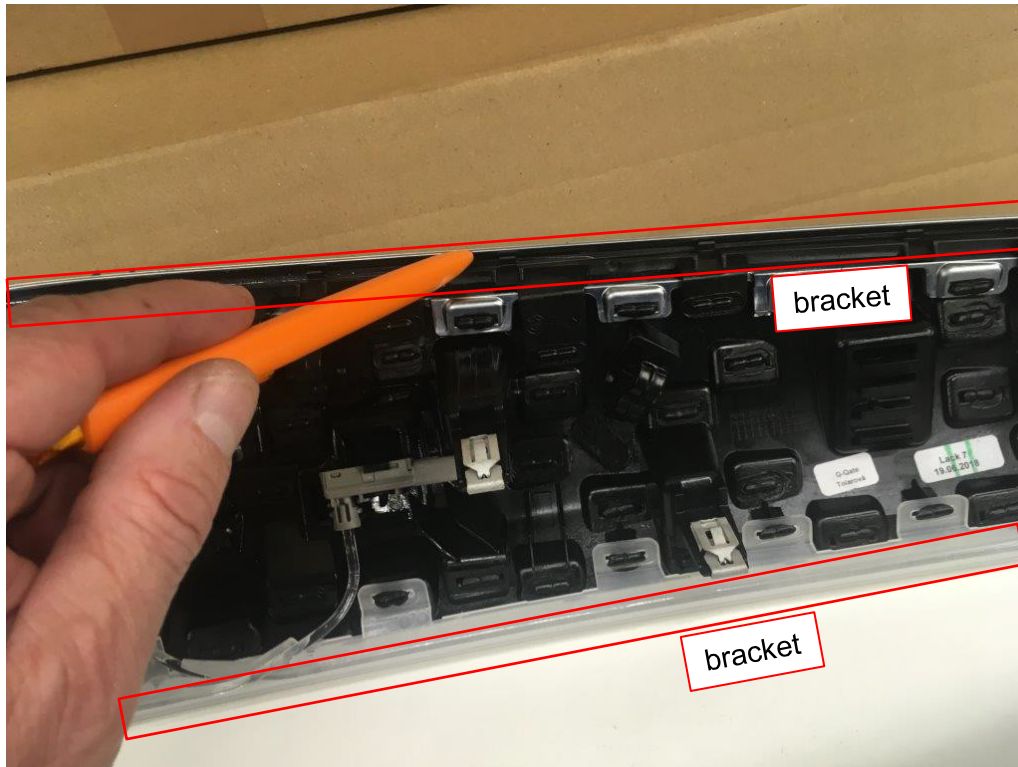
B51 24 19 Repair instruction decor strip of the instrument panel Attachment 1

Carefully remove the optical light bars with the help of a plastic wedge.



Note: The light bars must be removed.

B51 24 19 Repair instruction decor strip of the instrument panel Attachment 1



Cover the entire bracket of the light bars with masking tape. Ensure that no lubricants get into this area during lubricant application process as shown in the next steps.



B51 24 19 Repair instruction decor strip of the instrument panel Attachment 1

Lubricants required:

Molykote 111 (11 00 7 660 832)

Carbaflo KSP105 (83 23 0 309 627)

Lubricating spray (83 19 2 446 565)

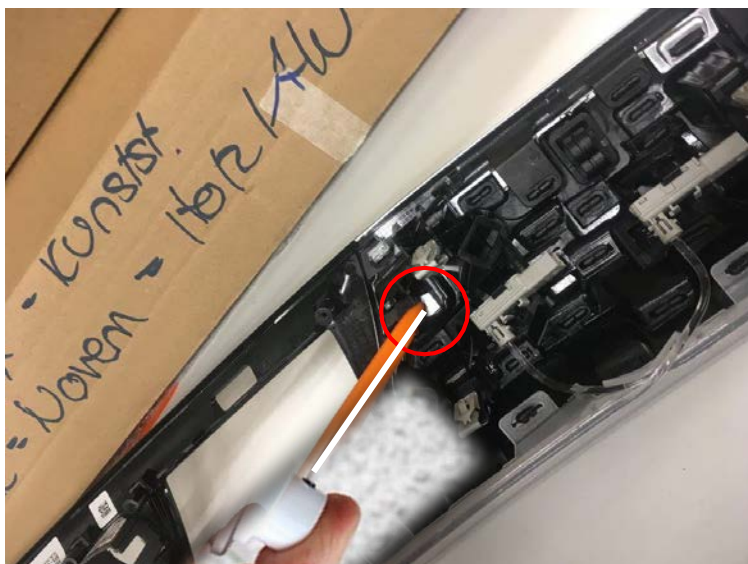
B51 24 19 Repair instruction decor strip of the instrument panel Attachment 1



After removing the attachments air vent grill, light bars, hazard switch, start/stop button, proceed as follows:

- Use universal lubricant with spray applicator.
- Apply the lubricant to all plastic welding points by using the spray applicator (example - see marked area at the right picture).

B51 24 19 Repair instruction decor strip of the instrument panel Attachment 1



Apply the universal lubricant between the carrier (black plastic) and the decor strip.

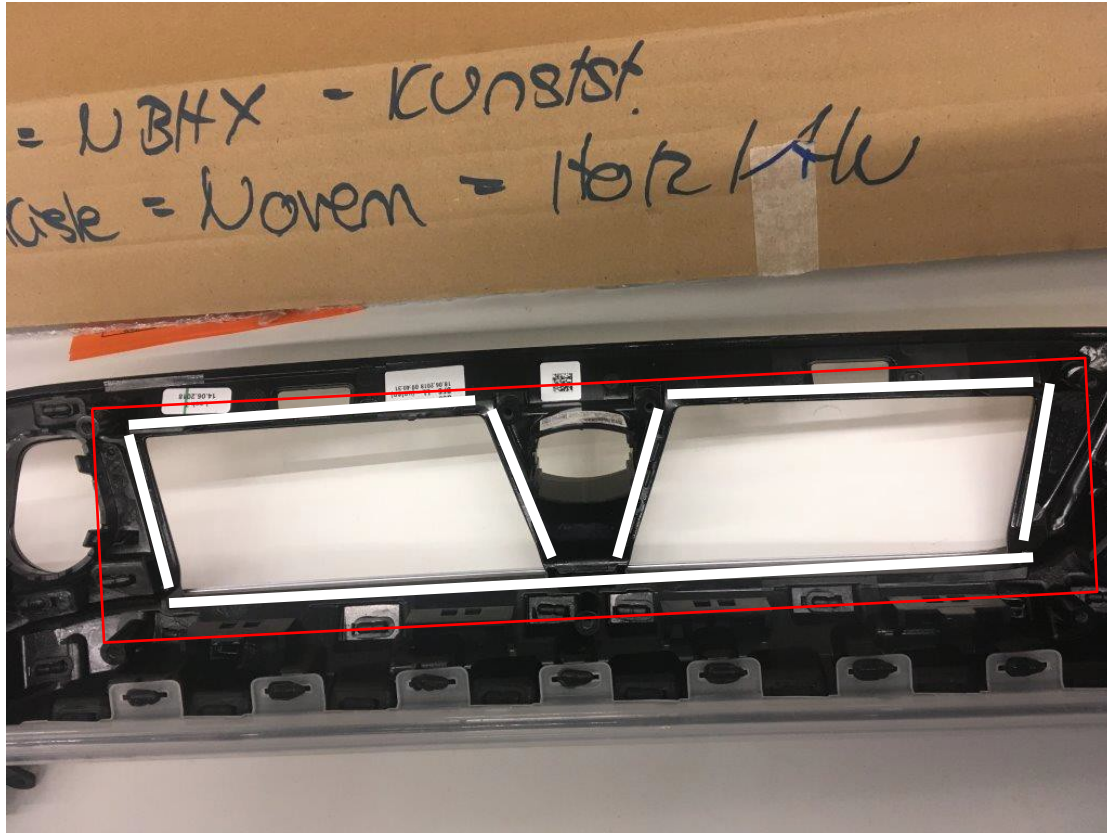
B51 24 19 Repair instruction decor strip of the instrument panel Attachment 1



Apply lubricant into **all** visible holes and gaps with the universal lubricant. With the help of the flexible applicator it's possible to apply lubricant in between the carrier and the decor strip easily.

The fluid must be applied between the carrier and décor strip as much as possible by rotating the part, allowing the lubricant to spread.

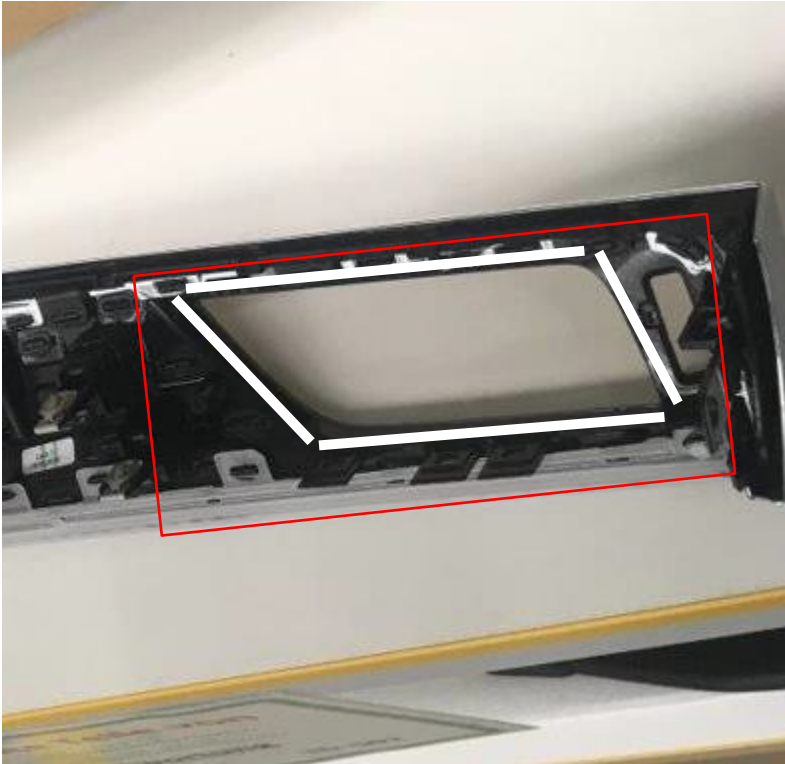
B51 24 19 Repair instruction decor strip of the instrument panel Attachment 1



Lubricate the contact surface (white markings) of the frame for the center air vent grill with Carbaflo KSP 105.



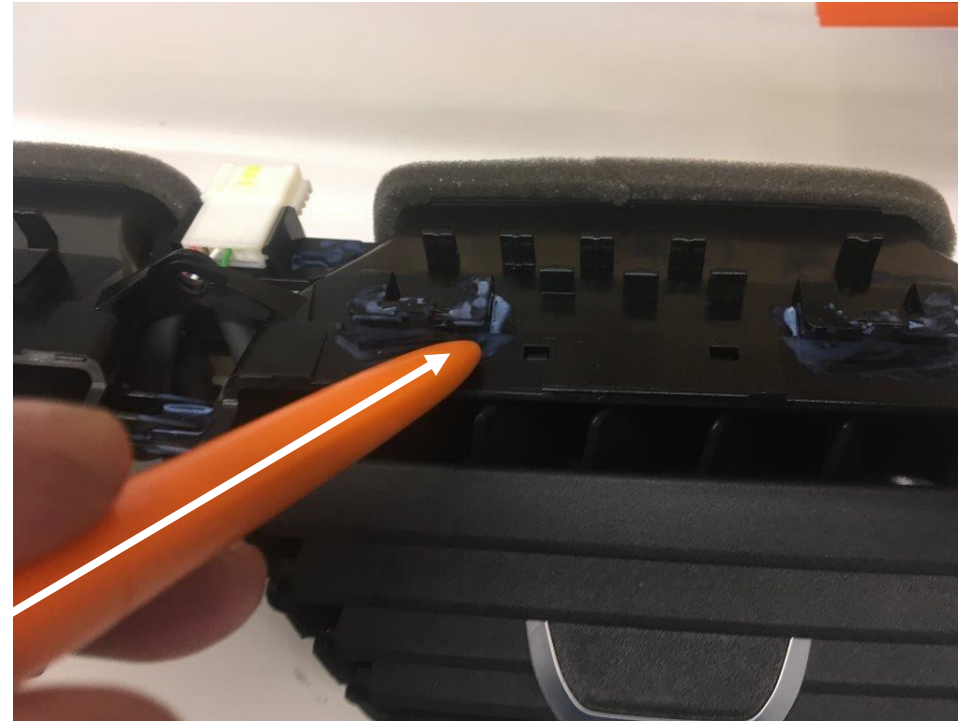
B51 24 19 Repair instruction decor strip of the instrument panel Attachment 1



Lubricate the contact surface (white marking) of the frame for the right air vent grill with Carbaflo KSP 105.

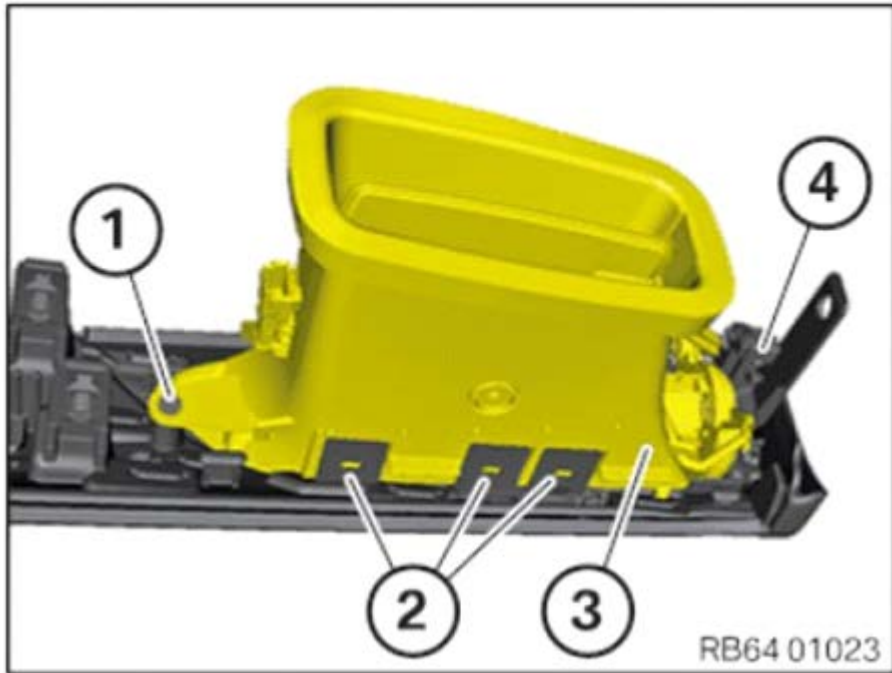


B51 24 19 Repair instruction decor strip of the instrument panel Attachment 1



Lubricate the contact surfaces on the center air vent grill with Molykote 111.
Molykote 111 may be a different color than shown above.

B51 24 19 Repair instruction decor strip of the instrument panel Attachment 1

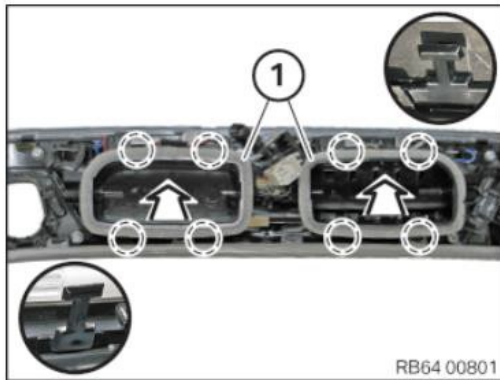


Lubricate the contact surface on the right air vent grill with Molykote 111.

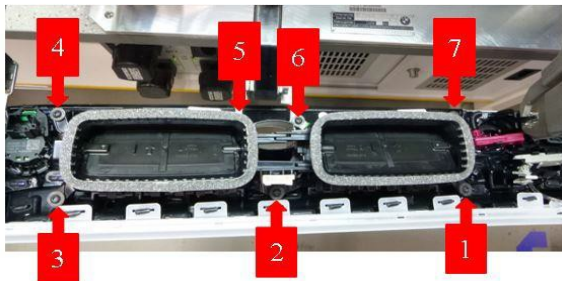
B51 24 19 Repair instruction decor strip of the instrument panel Attachment 1

Installing the centre fresh-air grille

REP-TAT-P-6422-02-G11_FLG



- Attach fresh air grille (1) in direction of arrow to the decorative strip.
- Check the correct position of the latch mechanisms.



Re-install all light tubes.

- Clip in cable clip.
- Tighten the screws (1).

Tightening torques

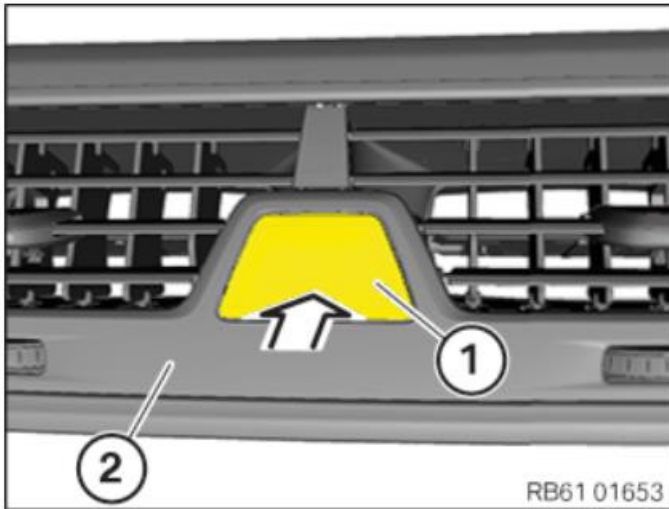
| | |
|-----------------|-------|
| Oval-head screw | 1,4Nm |
|-----------------|-------|

Tighten the screws in order of 1-7

B51 24 19 Repair instruction decor strip of the instrument panel Attachment 1

Install the hazard warning switch

REP-TAT-P-6131-02-G11_11

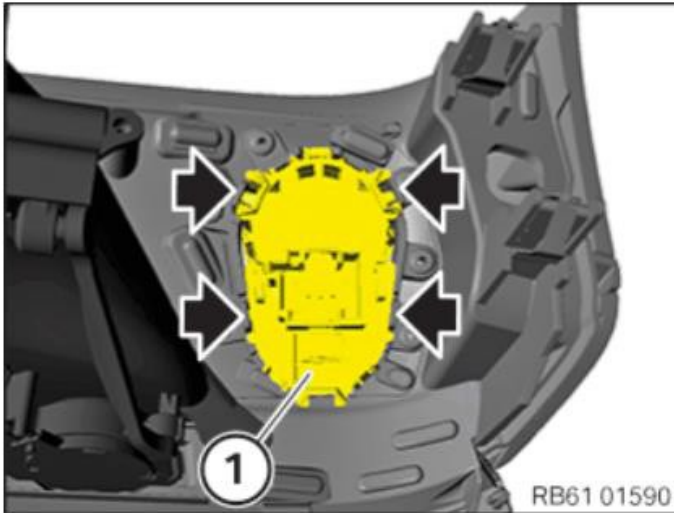


- Press the hazard warning switch (1) into the trim (2).

B51 24 19 Repair instruction decor strip of the instrument panel Attachment 1

Installing the START-STOP button

REP-TAT-P-6131-02-G11_10

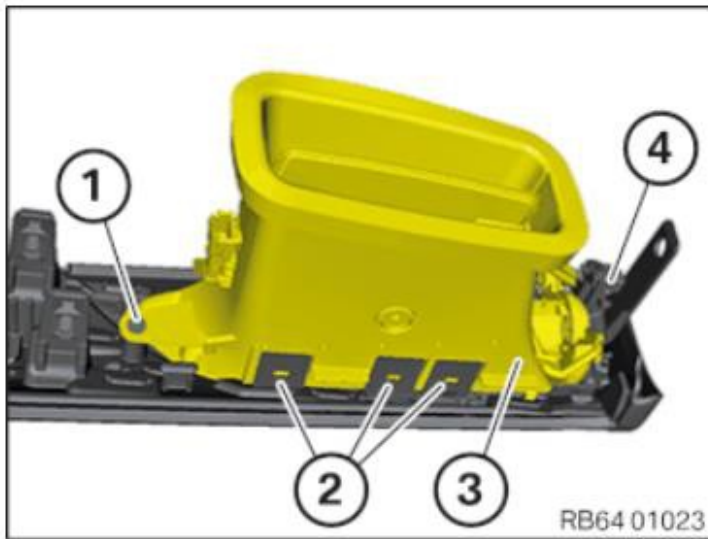


- Connect the START-STOP button (1) from behind into the decorative trim.
- Check the latch mechanisms.

B51 24 19 Repair instruction decor strip of the instrument panel Attachment 1

Installing the right fresh-air grille

REP-TAT-P-6422-02-G30

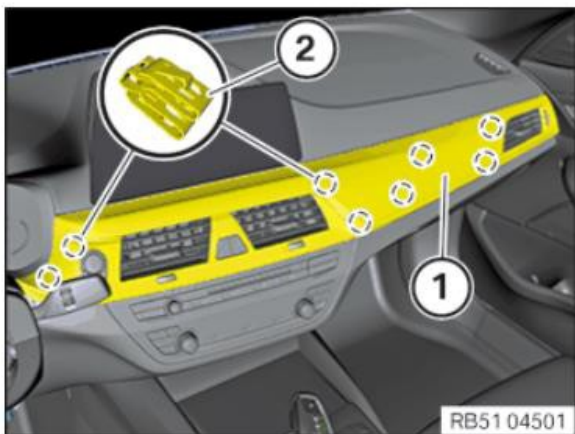


- Feed in the fresh air grille (3) into the finisher (4).
- Carefully engage the latch mechanisms (2) on the underside.
- If necessary, tighten screw (1).

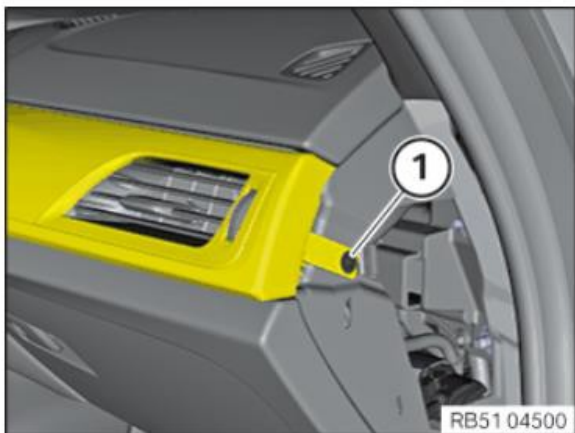
B51 24 19 Repair instruction decor strip of the instrument panel Attachment 1

Install the finisher on the right instrument panel

REP-TAT-P-5145-02-G30_1



- Connect the finisher (1) with the associated connectors.
- Clip in the finisher (1) with the clamps (2).



- Tighten down screw (1).

Tightening torques

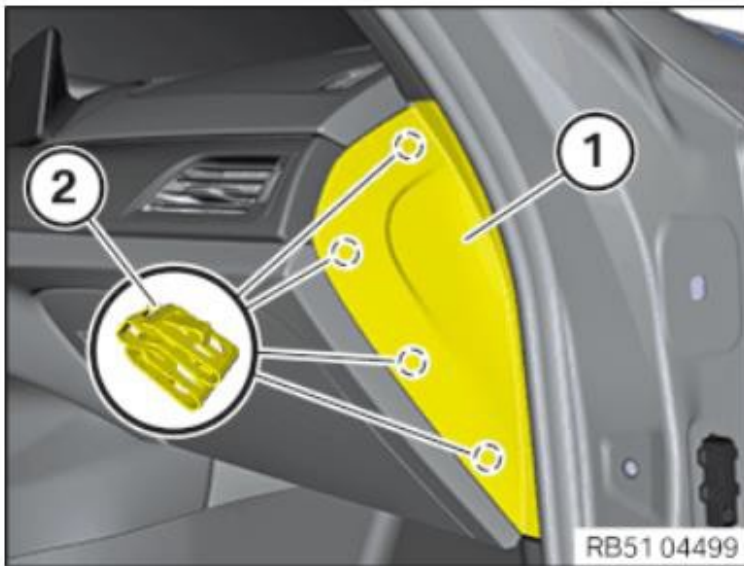
Decorative strip

1,8Nm

B51 24 19 Repair instruction decor strip of the instrument panel Attachment 1

Install the side panel on instrument panel on the right

REP-TAT-P-5145-02-G30_2

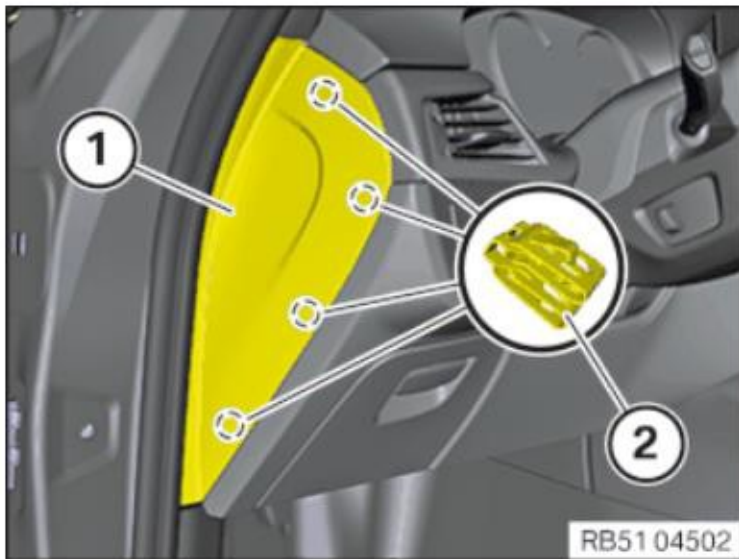


- If required, connect the associated connector.
- Feed in the side panel (1) and clip it in at the clamps (2).

B51 24 19 Repair instruction decor strip of the instrument panel Attachment 1

Remove the side panel on the left instrument panel

REP-TAT-P-5145-01-G30_3

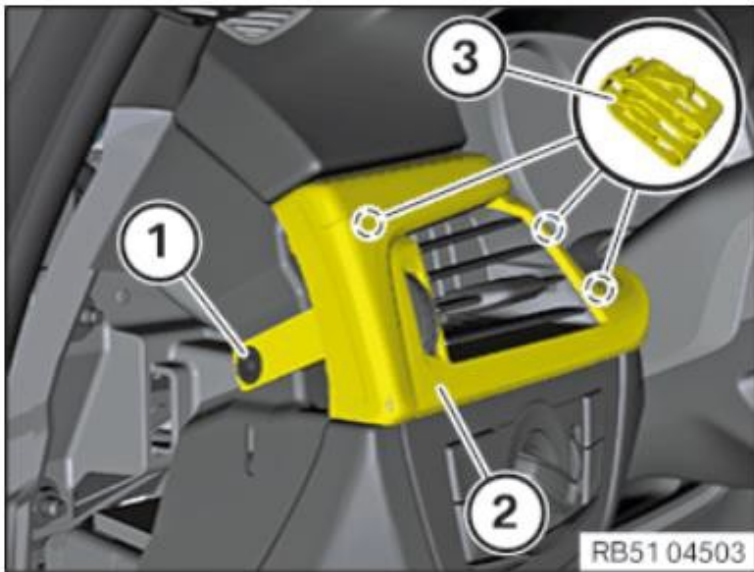


- Unclip and remove the side panel (1) towards the outside from the clamps (2).

B51 24 19 Repair instruction decor strip of the instrument panel Attachment 1

Remove the finisher on the instrument panel on the left

REP-TAT-P-5145-01-G30_4



- Loosen screw (1).
- Unclip the finisher (2) from clamps (3).
- Unlock associated plug connection and disconnect.

B51 24 19 Repair instruction decor strip of the instrument panel Attachment 1

Removing left fresh air grille

REP-TAT-P-6422-01-G11_FLGF

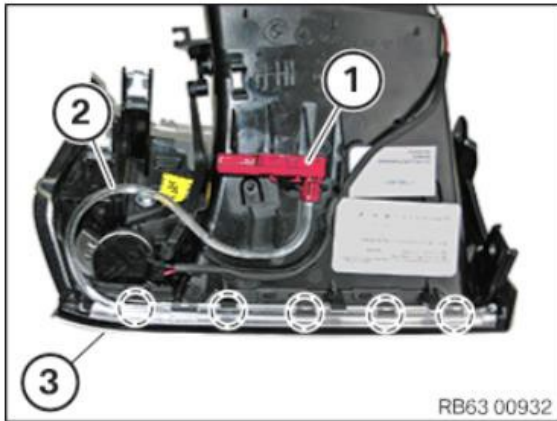


- Carefully loosen the latch mechanisms at the top and bottom.
- Remove the fresh air grille (1) from the decorative strip (2) in the direction of the arrow.

B51 24 19 Repair instruction decor strip of the instrument panel Attachment 1

Remove the fibre-optic conductor on the fresh air grille in the finisher on the left

REP-TAT-P-6331-01-G30_



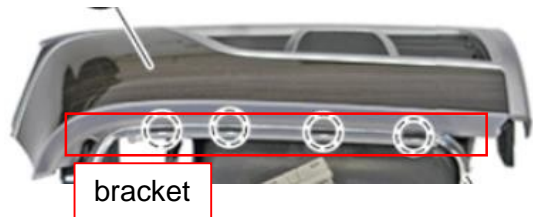
- Loosen the LED module (1) from the bracket.
- Loosen the fibre-optic conductor (2) from the latch mechanisms of the decorative strip (3).
- Unclip the LED module (1) from the fibre-optic conductor (2).



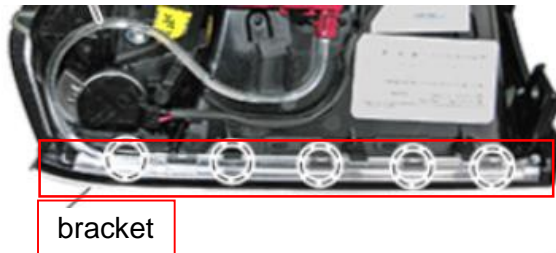
- Loosen the LED module (1) from the bracket.
- Loosen the fibre-optic conductor (2) from the latch mechanisms of the decorative strip (3).
- Unclip the LED module (1) from the fibre-optic conductor (2).

B51 24 19 Repair instruction decor strip of the instrument panel Attachment 1

To lubricate the left side air vent grill / decorative strip, follow the same steps as described for the right side.



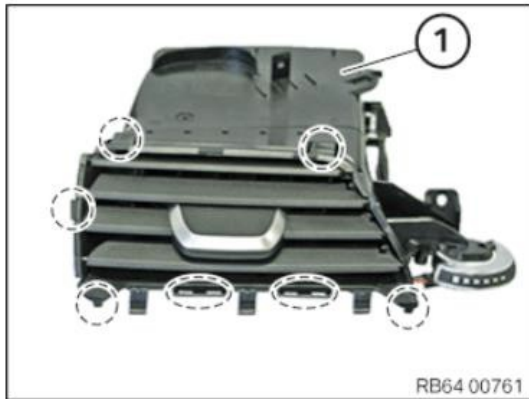
- Cover the entire bracket of the light bar with masking tape. Ensure that no lubricants get into this area.
- Use universal lubricant with spray applicator.
 - Apply the lubricant to all plastic welding points by using the spray applicator.
- Apply the universal lubricant between the carrier part and the decor strip.
- Apply **all** visible holes and gaps with the universal lubricant with the help of the flexible applicator.
- Lubricate the contact surface (white markings) of the frame for the air vent grill with Carbaflo KSP 105.
- Lubricate the contact surface on the center air vent grill with Molykote 111.



B51 24 19 Repair instruction decor strip of the instrument panel Attachment 1

Installing the left fresh air grille

REP-TAT-P-6422-02-G11_01



- Check latch mechanisms on fresh air grille (1) for damage.

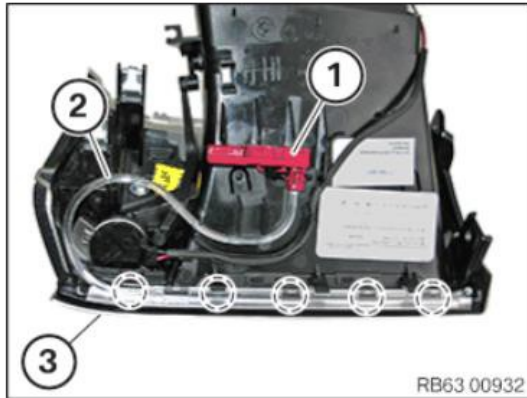


- Insert fresh air grille (1) into decorative strip (2) in direction of arrow.

B51 24 19 Repair instruction decor strip of the instrument panel Attachment 1

Install the fibre-optic conductor on the fresh air grille in the finisher on the left

REP-TAT-P-6331-02-G30_



- Clip the LED module (1) into the fibre-optic conductor (2).
- Clip in the fibre-optic conductor (2) into the latch mechanisms of the decorative strip (3).
- Clip the LED module (1) into the bracket.

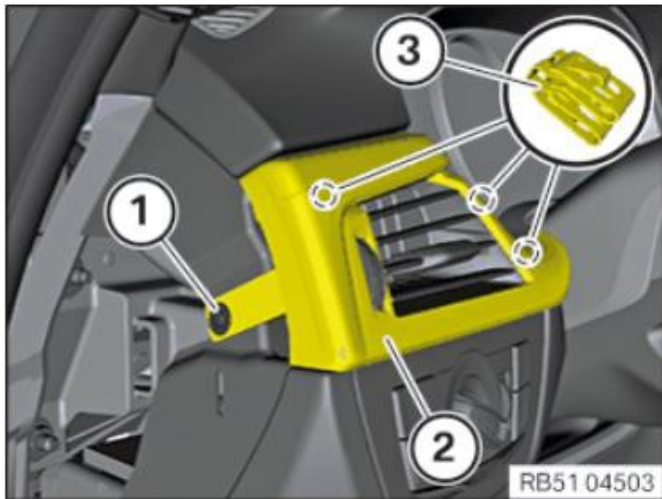


- Clip the LED module (1) into the fibre-optic conductor (2).
- Clip in the fibre-optic conductor (2) into the latch mechanisms of the decorative strip (3).
- Clip the LED module (1) into the bracket.

B51 24 19 Repair instruction decor strip of the instrument panel Attachment 1

Install the finisher on the instrument panel on the left

REP-TAT-P-5145-02-G30_4



- Connect the finisher (2) with the associated connector.
- Clip in the finisher (2) with the clamps (3).
- Tighten down screw (1).

Tightening torques

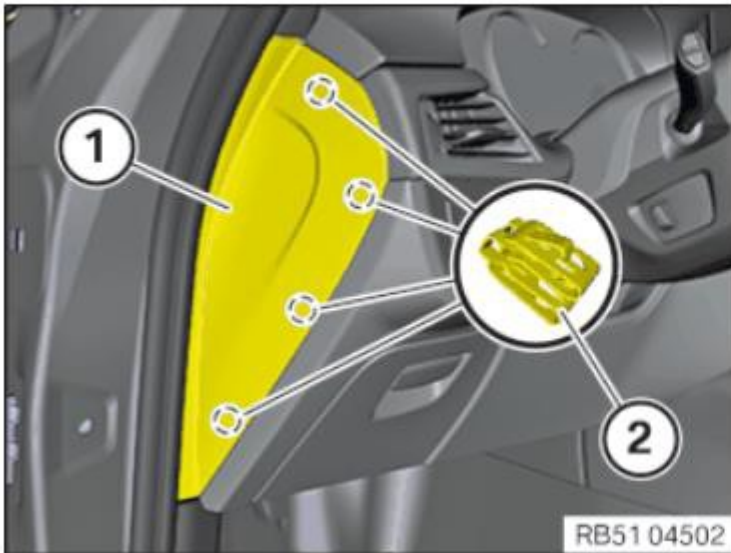
Decorative strip

1,8Nm

B51 24 19 Repair instruction decor strip of the instrument panel Attachment 1

Install the side panel on left instrument panel

REP-TAT-P-5145-02-G30_3



- Feed in the side panel (1) and clip it in at the clamps (2).

B51 24 19 Repair instruction decor strip of the instrument panel Attachment 1

Validation test:

- Cool down for approx. 10 minutes with the air conditioning system switched on (temperature setting of air conditioning control unit at lowest level, AC - ON).
- Heat the interior to the highest setting and evaluate the vehicle during the heating process about 5 minutes.
- After heating up, carry out a test drive about 15 minutes. Temperature setting via the air conditioning control unit to the lowest level, AC – ON.

