



Interior rear-view mirror

Automatic dimming interior rear-view mirror

The automatic dimming interior rear-view mirror dims in steps, if the driver is blinded by high beams from behind.

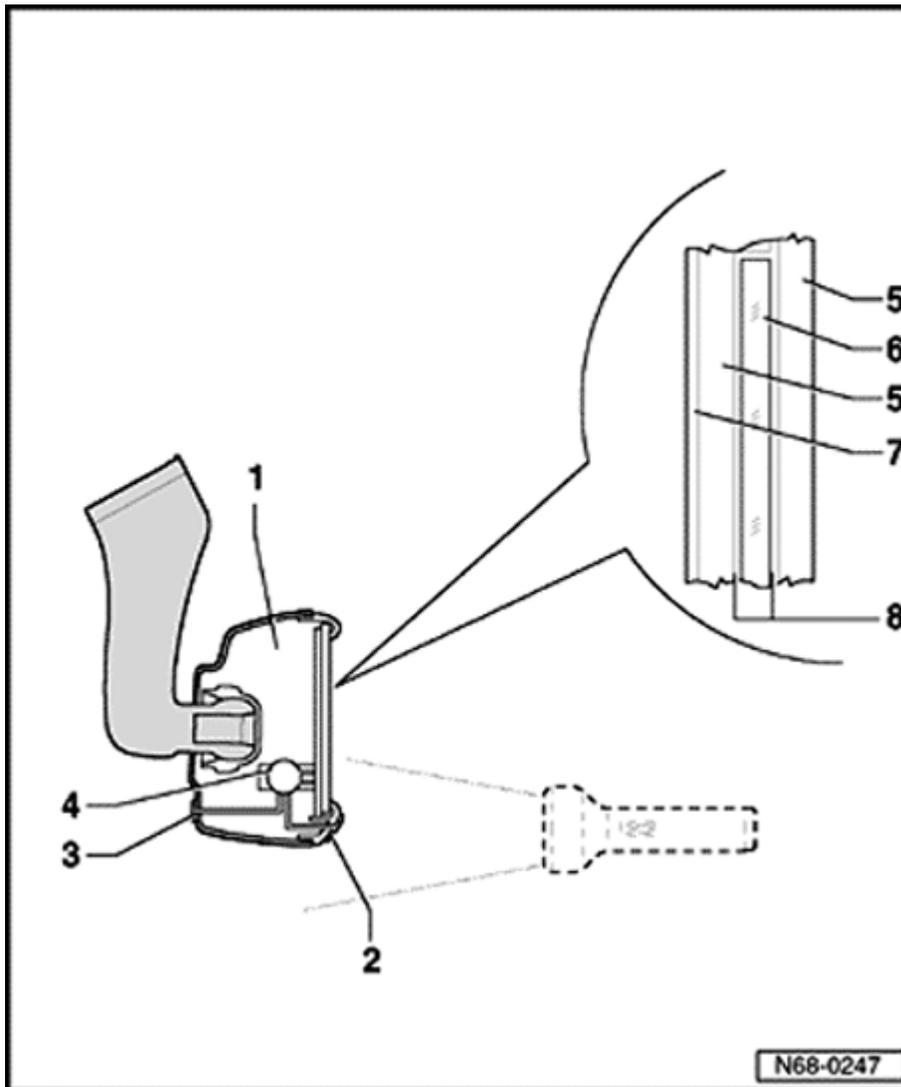
It consists of a mirror element and electronics with two photo-sensors.

The electronics recognizes via the photo sensors the light influence from the front and back.

If the light influence from behind is greater than from the front, the electronics emit a voltage to the coating.

The applied voltage changes the color of the electrolytes. The higher the voltage, the darker the electrolyte becomes and causing the light not to be reflected back as strongly.

When reverse is engaged, the dimming function is shut off. Thereby with the aid of the interior rear-view mirror e.g. one can drive out of a dark garage.



1 - Interior rear-view mirror

- ◆ Checking function: switch on ignition.
Cover photo sensor - 3 - and light up second photo sensor - 2 - with flashlight.
Mirror surface must dim (reverse gear must not be engaged).

2 - Photo sensor

3 - Photo sensor

4 - Electronics

5 - Glass

6 - Electrolytic coating

7 - Silver-reflective coating

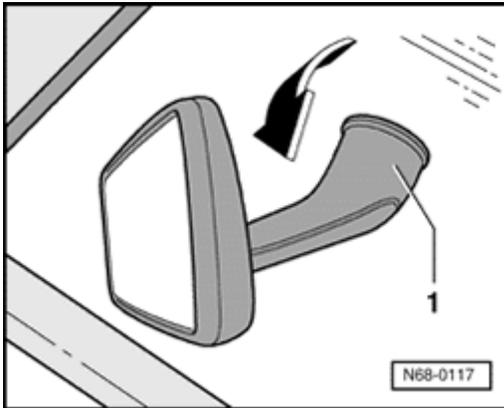
8 - Conductive coating



Interior rear-view mirror, removing

A

- Press interior rear-view mirror -1- off the retaining plate (arrow) by pushing down at an angle (locking springs in base of mirror).

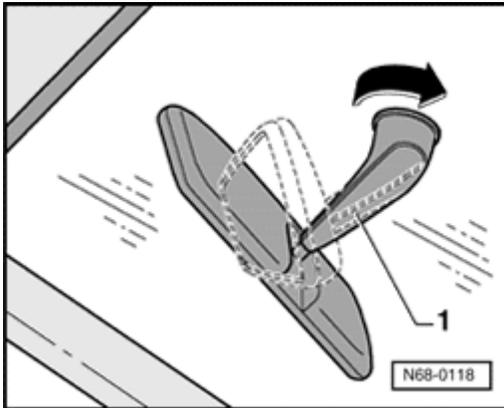




Interior rear-view mirror, installing

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- When installing mirror -1- turn it 60 - 90° from installed position then turn to installed position (arrow), until locking springs engage.

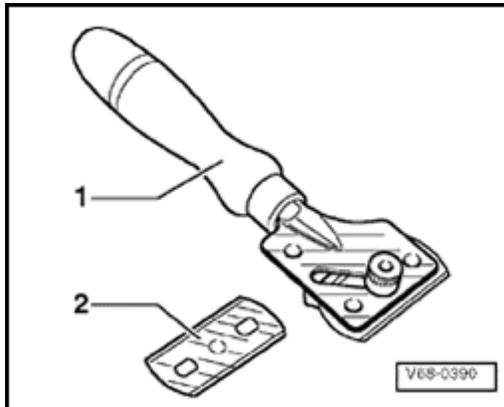




Mounting plate for interior rear-view mirror, bonding

Materials

- ◆ Glass-metal-adhesive-set D 000 703 A1



Tools

- 1 - Glass scraper (commercial)
- 2 - Blade (commercial)

- Remove mounting plate from mirror base.
- Remove PUR-adhesive material with wire brush from mounting plate.
- Grind off spacer knobs from adhesive surface. Sand paper (360/400 grade) on flat surface.
- Keep ground surface free from dirt and grease.
- Scrape PUR-adhesive material and primer up to ceramic layer with glass scraper off of windshield.
- Clean adhesive surface with adhesive remover D 002 000 10 or cleaning solution D 009 401 04.

**CAUTION!**

Do not damage ceramic layer. Scratches remain visible.

- Cut nylon mesh weave to exact size of mirror base.

Note:

Hands should be protected (rubber gloves).

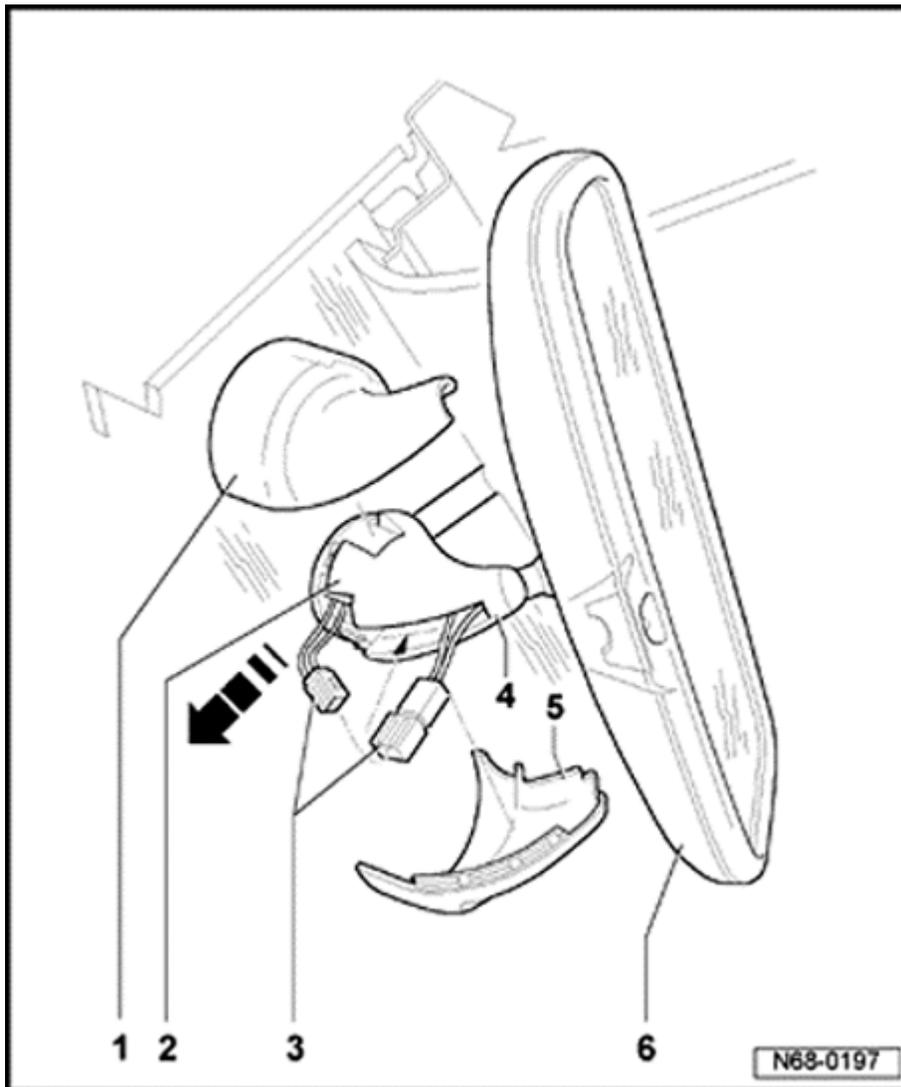
- Apply adhesive evenly on mirror base.
- Place nylon mesh weave on mirror base.
- With the tube, dab adhesive on nylon mesh adhesive.

Only 30 seconds are available from applying the adhesive to the nylon mesh weave until it is pressed onto the windshield.

- Press mirror base securely for 15 seconds (not with force) to the windshield.
- Remove excess adhesive with a cloth.

Note:

After 15 minutes the interior rear-view mirror can be mounted.



Interior rear-view mirror (with rain sensor), removing and installing

Removing

- Press apart left cover cap halves -1- and right -5- and remove.
- Pull connector -3- out of mirror base -4- and disconnect.
- Remove mirror base -4- with mirror -6- downward from retaining plate -2- (arrow).

Installing

- Install in reverse order of removal.



Mirror base for interior rear-view mirror with rain sensor, bonding

The previously described repair procedure can be avoided by using the repair procedure below.

This makes it (simultaneously) possible to re-use the old mirror base.

Preparation for windshield

- All adhesive and primer residue must be removed up to ceramic layer.
- Clean adhesive surface with cleaning solution D 009 401 04.
- Let dry for at least 10 minutes.
- Apply glass/paint primer D 009 200 02.
- Drying time until bonding: at least 10 minutes to max. 1 hour.

Preparation of re-used and new mirror bases

- Mechanically remove adhesive residue (applies only for an removed mirror base).



- Sand wet adhesive surface with very fine sand paper (800-1200 grit) until adhesive surface is uniformly moist.
- Then clean with cleaning solution D 009 401 04.

Bonding mirror base

- Apply 2K Polyurethane adhesive D 180 KD2 A1 directly on ground surface and clean adhesive surface of mirror base.

Adhesive bead diameter: approx. 2.5 - 3 mm

- After adhesive application press mirror base on to the prepared windshield glass all around.
- Position mirror base in position onto the ceramic coating and hold with adhesive tape.

Cleaning and removing any excess adhesive

- Carefully remove adhesive tape 0.5 - 1 hour after mirror base has set.
- Soft excess adhesive can be removed with a

knife all around.

- With a primer applicator or cloth drenched in cleaning solution remove excess adhesive.

Installing rain sensor and mirror

- Mirror can be installed 2.5 hours after bonding mirror base.