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## ACCESSORIES & BODY, CAB

### Interior Equipment - 257 Chassis

#### GENERAL INFORMATION

#### GENERAL NOTES: PASSENGER CARS: INTERIOR EQUIPMENT - AH68.00-Z-9999AZ

##### MODEL all

Â	Notes on carrying out repair work in the vehicle interior	MODEL 240, 415, 420, 447, 448, 470, 471, 636, 639, 667, 668, 670, 690, 900, 901, 902, 903, 904, 905, 906, 907, 909, 910...	AH68.00-D-0001-01KOS
Â	Notes on replacing trim strips in vehicle interior	MODEL 240	AH68.00-P-0002-01H
Â	General notes on retrofitting trim parts	Model 212.0##/2## 1#	AH68.00-P-0004-01EW
Â	Notes and list of compatible garage door drives for garage door opener	MODEL ALL with CODE 231 (Garage door opener) with CODE YF9 (Garage door opener)	<a href="#">AH68.05-P-0001-01A</a>
Â	Notes on programming garage door opener transmitter unit	Model all with code 231 (Garage door opener) Model all with code 232 (Garage door opener)	<a href="#">AH68.05-P-0002-01A</a>
Â	Notes on operating drawer	Model 203.0	AH68.30-P-0001-01A

#### NOTES AND LIST OF COMPATIBLE GARAGE DOOR DRIVES FOR GARAGE DOOR OPENER - AH68.05-P-0001-01A


##### MODEL ALL

with CODE 231 (Garage door opener)

with CODE YF9 (Garage door opener)

##### Compatibility, garage door drive to garage door opener

If the garage door drive is not compatible with the garage door opener, a universal receiver (Fix Kit receiver) can be installed in the garage for modulating the radio signal.

 The corresponding compatibility list can be found on the Internet site

<http://www.eurohomelink.com> in chapter "HomeLink compatibility".

Additional information on universal receivers is given at the Internet address above and can also be ordered there.

## **NOTES ON PROGRAMMING GARAGE DOOR OPENER TRANSMITTER UNIT - AH68.05-P-0002-01A**

### **Model all**

**with code 231 (Garage door opener)**

### **Model all**

**with code 232 (Garage door opener)**



Details on programming garage door opener transmitter unit as well as the corresponding compatibility list are given on the internet site:

<http://www.eurohomelink.com>

Programming in chapter "Current vehicles"

Programming the national version, learning in hand transmitter and synchronization of alternating code system is described in the Mercedes-Benz operating instructions.

Compatibility list in chapter "HomeLink compatibility".

### **Compatibility of garage door drive to garage door opener**

If the garage door drive is not compatible with the garage door opener, a universal receiver (Fix Kit receiver) can be installed in the garage for modulating the radio signal.

Additional information on universal receivers is available at the internet address <http://www.eurohomelink.com>.

### **Misuse protection**

As of model series 204 the garage door opener transmitter unit with misuse protection is installed. It is necessary to perform an initial startup procedure for this garage door opener transmitter unit when replacing using a diagnostic system. The safety code is initialized and the national version programmed.

## **BASIC KNOWLEDGE**

### **TEMPERATURE-CONTROLLED CUP HOLDER, BASIC FUNCTION - GF68.00-P-9900A**

#### **Model 223**

**with code 224 (Individual rear seats)**

#### **Model all (CAR)**

**with code 307 (Temperature-controlled cup holder in rear passenger compartment)**

#### **Model all (CAR)**

**with code 311 (Temperature-controlled cup holder)**

#### **Overview**

This document contains information on:

- Cooling
- Heating up
- Fault messages

## General

Beverages can be cooled or heated with the temperature-controlled cup holder. It is possible to heat up to approx. 58°C and to cool down to approx. 3°C.

The main component parts of the temperature-controlled cup holder are:

- Residual heat indicator lamp (model-dependent)
- Cup holder button
- Cooling and heating element
- Fan
- Temperature sensor
- Electronic control

## Function requirements

- Circuit 15R ON

## Cooling

The user can activate or deactivate the cooling function via the cup holder push button switch. A blue indicator lamp displays the active cooling procedure.

The cooling procedure has the following time-dependent cooling output for a beverage can (volume: 0.33 l, temperature: 21°C):

- After 30 min: Approx. 15°C
- After 60 min: Approx. 10°C
- After 120 min: Approx. 5°C

## Heating up

The user can activate and deactivate the heating function via the cup holder push button switch. A red indicator lamp displays the active warming procedure.

The warming procedure has the following time-dependent warming output for a beverage can (volume: 0.33 l, temperature: 21°C):

- After 30 min: Approx. 30°C
- After 60 min: Approx. 40°C
- After 120 min: Approx. 50°C

As from a temperature of approx. 40°C, the residual heat indicator lamp signals the increased temperature (model-dependent).

## Fault messages

The indicator lamp displays errors that occur during operation by flashing correspondingly:

- Two flashes: The cup holder button is disabled.
- Three flashes: The cooling and heating element of the cup holder is impaired.
- Four flashes: The temperature sensor is impaired.

## **GARAGE DOOR OPENER, FUNCTION - GF68.05-P-0001FR**

**Model 257, 290**

**up to model year 2021**

**with code 231 (Garage door opener)**

**Model 257, 290**

**up to model year 2021**

**with code 232 (Garage door opener with frequency 284-390 MHz)**

### **Function requirements, general**

- Circuit 15R ON



The electronic ignition lock control unit (N73) transmits the circuit status of circuit 15R via the interior CAN (CAN B) to the overhead control panel control unit (N70).

### **Garage door opener, general**

The garage door opener (A67n2) is a remote control capable of learning with which various receivers for the opening and locking systems for doors or gates can be activated. The garage door opener is integrated into the inside rearview mirror (A67). The garage door opener is connected to the overhead control panel control unit via the roof LIN (LIN B13). The garage door opener radio signal has a range of approx. 85 % of the original hand transmitter.

On vehicles with code 231 (Garage door opener) the following frequencies are available:

- 27 MHz
- 30 MHz
- 40 MHz
- 418 MHz
- 433 MHz
- 868 MHz

On vehicles with code 232 (Garage door opener) frequencies between 284 and 390 MHz are available.

A67e4User guidance (single-hand operation) is provided by multi-colored indicator light on the garage door opener (green, yellow and red).

The garage door opener function comprises the following partial functions:

- **Programming memories**
- **Transmitting the radio signal**
- **Erasing memory locations**

- **Resetting as-delivered state**
- **Transmitting the security code (protection against misuse)**

### **Programming memories**

Hold down garage door opener button 1 (A67s1), garage door opener button 2 (A67s2) or garage door opener button 3 (A67s3) for the time of minimum 10 s. The garage door opener changes into learning mode which is displayed by the flashing garage door opener (yellow) at a frequency of 1 Hz. Then hold original hand transmitter with activated transmitter function for at least up to 90 s in the vicinity of the garage door opener (3 to 20 cm). The transmission frequency of the original hand transmitter is now programmed. The garage door opener selects the right frequency from the possible transmission frequencies.

Successful termination of the teach-in procedure is indicated by the garage door opener indicator lamp illuminating green (fixed code learned in) or flashing green (variable code with 5.6 Hz learned in). An unsuccessful attempt is indicated by the garage door opener indicator lamp illuminating red.

**i** The garage door opener is approx. 85 % compatible with the garage door opening systems offered on the primary sales markets. If the original hand transmitter is not compatible with the garage door opener, a universal receiver ("Fix Kit Receiver") which reacts to the in-plant programming of the garage door opener can be installed in the garage.

### **Transmitting the radio signal**

When one of the following buttons is pressed, a radio signal assigned to this memory is transmitted:

- Garage door opener button 1
- Garage door opener button 2
- Garage door opener button 3

The function is confirmed by the garage door opener indicator lamp (green).

### **Erasing memory locations**

To clear the memory, press the two outer garage door opener (buttons 1 and 3) simultaneously for at least 10 s. The garage door opener indicator lamp flashes green for 10 s. Release garage door opener buttons during flashing phase. The existing data of the memory locations is erased.

**i** The garage door opener goes to the learn-in mode when one of the three garage door opener buttons is pressed again. If programming is not performed during the learning mode for a period of 100 s the garage door opener switches off automatically to protect the on-board electrical system.

### **Resetting as-delivered state**

To reset press the two garage door opener outer buttons (buttons 1 and 3) simultaneously for at least 30 s.

Basic setting:

- "Chamberlain" algorithm (310 MHz) (with code 232 (Garage door opener))
- "Keelogg" algorithm (433 MHz) (with code 231 (Garage door opener))

### **Transmitting the security code (protection against misuse)**

Each time function is actuated, the overhead control panel control unit transmits a safety code to the garage door opener via roof LIN. If the safety code transmitted does not coincide with the stored safety code, the channels learned in are erased.

However, the national coding is maintained.

Â	Overview of system components for electric mirror	Â	<a href="#">GF88.79-P-9996FR</a>
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## **GARAGE DOOR OPENER, BASIC FUNCTION - GF68.05-P-9900A**

**Model all (CAR)**

**with code 231 (Garage door opener)**

**Model all (CAR)**

**with code 232 (Garage door opener with frequency 284-390 MHz)**

### **General**

The garage door opener is a teachable remote control that saves and transmits radio signals for different receivers of opening and locking systems. The garage door opener is integrated into the inside rearview mirror.

### **Function requirements**

- Terminal 15 R on

### **Function**

The garage door opener contains 3 memory presets for different radio signals. The garage door opener is operated via the buttons integrated in the inside rearview mirror. Operational feedback takes place via the multicolor indicator lamp installed in the inside rearview mirror.

The following functions are available for the garage door opener:

- Programming memories
- Transmission of programmed radio signals
- Erasing memory locations
- Resetting as-delivered state

If no programming occurs within 100 s during programming, the programming automatically switches itself off.

**i** The garage door opener is approx. 85 % compatible with the garage door opening systems offered on the primary sales markets. If the original hand transmitter is not compatible with the garage door opener, a universal receiver (fix kit receiver) is available for installation in the garage. This responds to the ex works programming of the garage door opener.

For protection against improper use, the overhead control panel control unit transmits a security code to the garage door opener every time the function is triggered. If the transmitted security code does not match with the security code stored in the garage door opener, the garage door opener deletes the taught-in channels. However, the national coding is maintained.

### **Overview of frequencies**

Â	Code 231 (Garage door opener)	Code 232 (Garage door opener)
<b>Frequencies</b>	433 MHz, 866 MHz	Frequency range between 284 MHz and 390 MHz
<b>Basic setting in case of reset</b>	Algorithm (f = 433 MHz)	Algorithm (f = 310 MHz)

Â	<b>Control units</b>	Â	Â
Â	Overhead control panel control unit, basic function	Â	<a href="#">GF82.20-P-9890A</a>

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## ARMREST HEATER CONTROL UNIT, COMPONENT DESCRIPTION - GF68.20-P-2001FR

Model 257, 290

up to model year 2021

with code 906 (Front armrest heater)

Shown on model 257.3

[Fig. 1: Armrest Heater Control Unit Component Location - Model 257 Up To Model Year 2021 With Code 906](#)  
Courtesy of MERCEDES-BENZ USA

### Location

The armrest heater control unit is located in behind the left paneling in the trunk.

### Tasks

The armrest heater control unit actuates the armrest heater in the front center console.

The armrest heater control unit directly actuates the front left center console armrest heating element (R16/13) and the front right center console armrest heating element (R16/14) as per the requirements of the rear SAM control unit (N10/8).

The armrest heating control unit directly reads in the signals of the following temperature sensors for the temperature monitoring of the heating elements:

- Left front center console armrest heating element temperature sensor (R16/13b1)
- Right front center console armrest heating element temperature sensor (R16/14b1)

Â	Wiring diagram for armrest heater control unit	Â	<a href="#">PE68.20-P-2102-97XBA</a>
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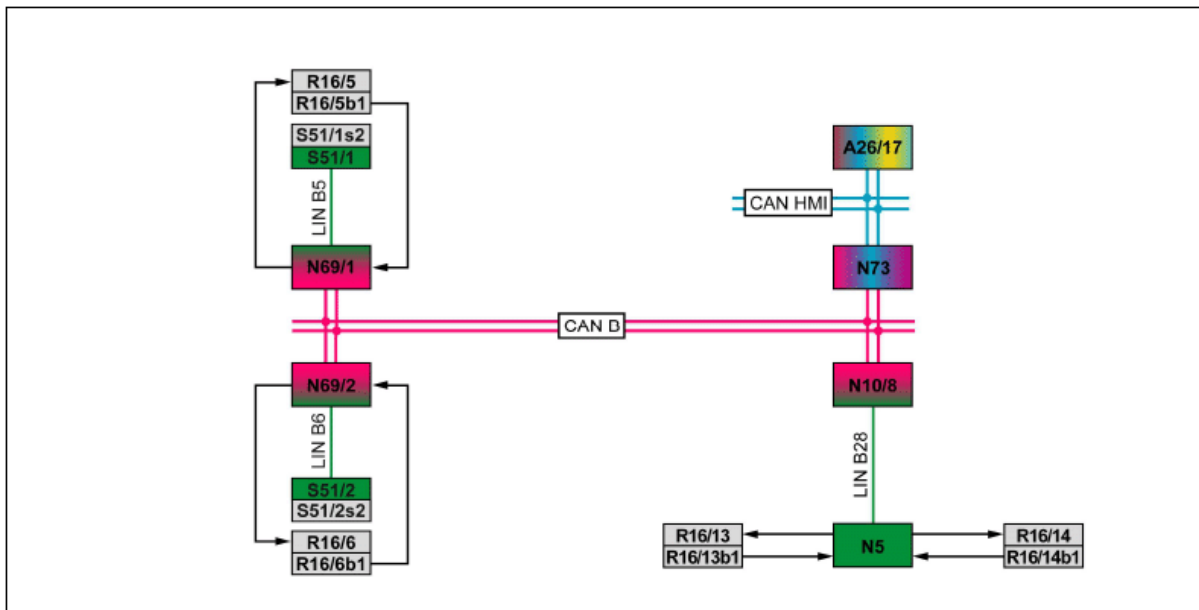
## ARMREST HEATER, FUNCTION - GF68.20-P-4002FR

Model 257, 290

up to model year 2021

with code 906 (Front armrest heater)





P91.30-2747-79

A26/17	Head unit	R16/14	Right front center console armrest heating element
N5	Armrest heater control unit	R16/14b1	Right front center console armrest heating element temperature sensor
N10/8	Rear SAM control unit	S51/1	Left front seat climate control switch group
N69/1	Left front door control unit	S51/1s2	Left front seat heater switch
N69/2	Right front door control unit	S51/2	Right front seat climate control switch group
N73	Electronic ignition switch control unit	S51/2s2	Right front seat heater switch
R16/5	Right front door armrest heating element	CAN B	Interior CAN
R16/5b1	Left front door armrest heating element temperature sensor	CAN HMI	User interface CAN
R16/6	Right front door armrest heating element	LIN B5	Left front door LIN
R16/6b1	Right front door armrest heating element temperature sensor	LIN B6	Right front door LIN
R16/13	Left front center console armrest heating element	LIN B28	Heater LIN
R16/13b1	Left front center console armrest heating element temperature sensor		

## Function requirements, general

- Circuit 15R ON



The electronic ignition lock control unit sends the status of circuit 15 over the interior CAN to the rear SAM control unit.

## Armrest heater function, general

Thanks to the armrest heater, the following armrests can be heated to three heating levels:

- Left front door armrest
- Right front door armrest
- Front center console armrest

The user can adapt the actuation of the heating elements according to his/her requirements via a menu in the head unit.



The armrest heater is not equipped with its own switches; use control points for seat heater.



For each control point various heating elements are actuated:

- Driver: Left front door armrest and front center console armrest
- Passenger: Right front door armrest and front center console armrest

The armrest heating includes the following subfunctions:

- **Configuration of heating elements**
- **Armrest heating activation/deactivation**
- **Switching off automatically**

### **Configuration of heating elements**

The heating elements are configured via a menu in the head unit. Individual heating elements can be activated or deactivated. In each case, the configuration is performed separately for the driver and front passenger control points.

The heat unit transmits the configuration request for the heating elements via user interface CAN, electronic ignition lock control unit to the rear SAM control unit, which processes and stores them. The rear SAM control unit transmits the status signal to the heating unit in the opposite direction to confirm.

### **Armrest heating activation/deactivation**


The armrest heating is activated/deactivated via the seat heating switch in the respective seat climate switch group together with the seat heating. In addition, the heating output can be regulated (initial status: armrest heating deactivated, all LEDs off):

- Press once: 3 LEDs illuminate, heating level 3 of the armrest heating is activated (100 % heating output).
- Press twice: 2 LEDs illuminate, heating level 2 of the armrest heating is activated (65 % heating output).
- Press three times: 1 LED illuminates, heating level 1 of the armrest heating is activated (35 % heating output).
- Press four times: All LEDs off, the armrest heating is switched off.

### **Function note**

The armrest heater is automatically switched off and time-controlled. The time is controlled by the rear SAM control unit.

- Heating level 3 is active for 8 mins. Then the system automatically switches to heating stage 2.
- Heating level 2 is active for 10 mins. Then the system automatically switches to heating level 1.
- Heating level 1 is active for 20 mins. Then the armrest heater is switched off automatically.

 The timer control of the three heating stages can be adjusted at the factory using a diagnostic tester.

The front door control unit reads in the status of the seat heater switch via the front door LIN and transmits a request to the rear SAM control unit via the interior CAN. The rear SAM control unit evaluates them and transmits the request to actuate the heating elements via the interior CAN to the corresponding front door control unit and via the heater LIN to the armrest heater control unit.

The corresponding front door control unit then actuates the front door armrest heating element. The armrest heater control unit directly actuates the front center console armrest heating elements.

The temperature of the armrest heater is monitored by the temperature sensors in the corresponding heating element. The corresponding front door control unit reads in the signals from the front door armrest heating element temperature sensor and relays them to the rear SAM control unit via the interior CAN. The armrest heater control unit reads in the signals from the front center console armrest heater element temperature sensors and transmits it to the rear SAM control unit via the

heater LIN.

To provide function feedback, the rear SAM control unit transmits the status of the armrest heater via the interior CAN, front door control unit and front door LIN to the corresponding seat climate control switch group, which actuates the LEDs in the front seat heater switch accordingly.

### Switching off automatically

The armrest heater is switched off automatically if one of the following events occurs:

- **Shut-off in the event of a hardware defect**

In the event of an active actuation without a corresponding request, the rear SAM control unit switches the armrest heating off.

- **Deactivation for excess temperature of printed circuit boards in armrest heater control unit**

- At a circuit board temperature above 70Â°C it is no longer possible to activate heating stage 3.
- At a circuit board temperature above 80Â°C it is no longer possible to activate heating stage 3 and heating stage 2.
- At a circuit board temperature above 90Â°C the seat heater can no longer be activated.



If no circuit board temperature value is present, the interior temperature value is used instead.

If a circuit board temperature above 90Â°C is reached, an error message is stored in the fault memory. Manual switch-on requires cooling down the circuit board temperature of 2Â°C below the corresponding temperature threshold.

- **Switching off when temperature of heating elements is too high**

The temperature of the heating elements is continuously monitored. Where there is a threat of overheating, the power supply of this heating element is switched off.

- **Shutoff in the event of an error (short circuit, overload or open circuit (line break))**

In the event of a short circuit, an overload or a line break, the power supply of the heating element identified is shut off. The precise source of the fault can be diagnosed using the diagnostic tester.

- **Shutoff when the engine starts**

When the engine is started (cold start) the armrest heater is switched off for 20 s. In the case of a warm start, the armrest heater is switched off for 3 to 5 s. The timer control expires, also the LEDs in the corresponding seat heater switch remain switched on. No undervoltage assessment takes place during startup.

- **Switching off by means of energy management**

In order to prevent the battery from discharging, the state of charge is continuously evaluated. Depending on the situation, the armrest heater is switched off if necessary.

If the armrest heating is deactivated, the LEDs initially remain activated in the respective seat heating switch. If the on-board electrical system reaches the specified voltage again within the next 3 minutes, the armrest heater is also automatically restarted. If the switch-off time exceeds 3 min, the LEDs are switched off as well. If the switch-off continues and the armrest heater is requested again, the LEDs illuminate for 1.5 seconds and then they go off.

- **Switching off in the event of a loss of power**

In the event of a loss of power, the armrest heater is switched off.

- **Switching off after circuit 15R is OFF**

With circuit 15R OFF and circuit 15C ON, the timer control continues for 5 min. If circuit 15R is switched on again, the armrest heater is also switched on again.

- **Switching off in the event of timeout error**

If the electronic ignition lock control unit detects a timeout error, the armrest heater is switched off.

- **Shutoff at end of diagnosis**

The armrest heater is switched off after a diagnosis has been completed.

Â	Electrical function schematic for armrest heater	Â	<a href="#">PE68.20-P-2055-97XBA</a>
Â	Overview of system components of comfort heating systems	Â	<a href="#">GF91.30-P-9990FR</a>

## **ARMREST HEATING CONTROL UNIT, BASIC FUNCTION - GF68.20-P-9890A**

### **Model all (CAR)**

**with code 906 (Front armrest heater)**

### **Model all (CAR)**

**with code 907 (Rear armrest heater)**

### **Overview**

This document contains information on:

- General
- Location
- Function requirement

### **General**

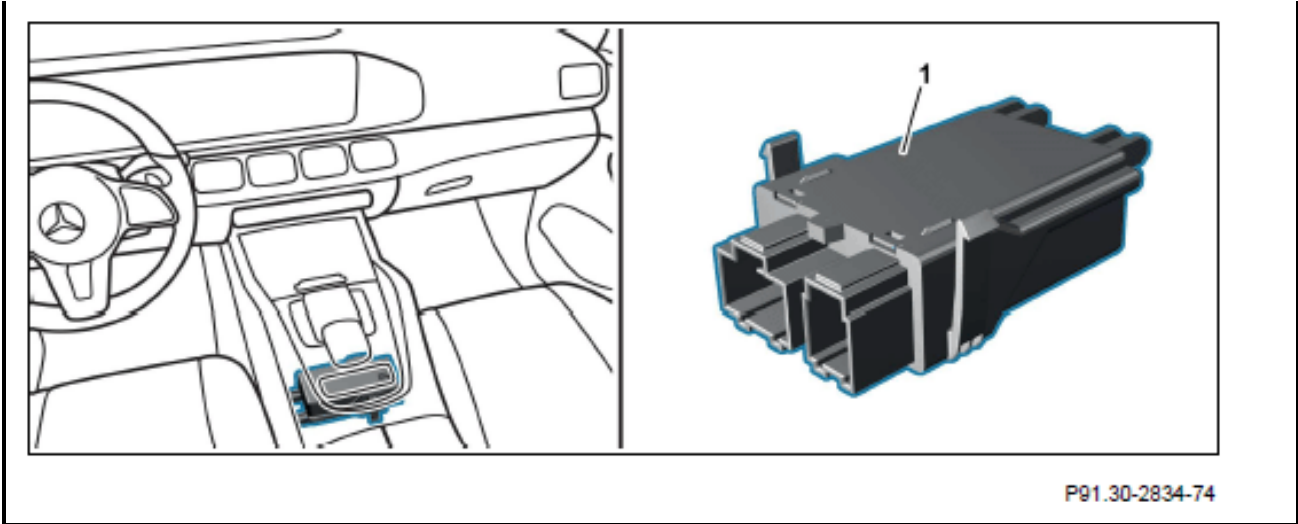
The armrest heating control unit regulates the functions of the armrest heating in the center console. Additionally, depending on the model, the requests for operating the heating function are transmitted by the rear SAM control unit via the LIN unit and sent accordingly to the heating elements of the armrest in the front center console. The temperature and function are constantly monitored through evaluation of the signals of the temperature sensors on the front center console armrest heating elements.

### **Location**

The armrest heating control unit (1) is located in the center console. This can, however, vary depending on the model. Separate installation locations are listed in the below table.

1. *Armrest heater control unit*

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**Function requirement**

- Circuit 15R ON
- Heat heater coded

Â	Component description	Â	Â
Â	Armrest heater control unit, component description	Model 223 with code 906 (Front armrest heater) Model 223 with code 907 (Rear armrest heater)	GF68.20-P-2001A

**ARMREST HEATING, BASIC FUNCTION - GF68.20-P-9900A**

**Model all (CAR)**

**with code 906 (Front armrest heater)**

**Model all (CAR)**

**with code 907 (Rear armrest heater)**

**Overview**

This document contains information on:

- General
- Function requirement
- Manual switching on and off:
- Time-controlled switch-off

**General**

The armrest heating function can be used (depending on the equipment) to heat the front and/or the rear armrests in the vehicle. This includes the armrests in the front doors and the rear doors and the armrests in the front center console and the rear center console. The control unit of the respective door controls the heating for the door armrests, while the armrest heating control unit controls the heating in the center console.

## Function requirement

- Heat heater coded

### Manual switching on and off:

The armrests are heated only in combination with the seat heating. It is operated via the seat climate control switch group in the doors. The heating output can be adjusted to 3 different levels of intensity (100/65/35 % output). The armrest heating is monitored by temperature sensors in the corresponding heating element.

The armrest heating function can be configured via the multimedia system. The signal acquisition and actuation module (SAM) saves the selected settings.

### Time-controlled switch-off

Time-controlled switch-off of the armrest heating takes place at the same time as the time-controlled switch-off of the seat heating.

Â	Function schematics	Â	Â
Â	Function schematic for actuating armrest heating	Model 167 with code 906 (Front armrest heater) Model 167 with code 907 (Rear armrest heater) Model 213, 238, 257, 290 as of model year 2021 with code 906 (Front armrest heater) Model 213 as of model year 2021 with code 907 (Rear armrest heater)	<a href="#">PE68.20-P-2501-97A</a>
Â	Â	Model 223 with code 906 (Front armrest heater) Model 223 with code 907 (Rear armrest heater)	PE68.20-P-2501-97B
Â	<b>Additional basic functions</b>	Â	Â
Â	Comfort heaters automatic shutoff, basic function	Model all (CAR) with code 906 (Front armrest heater) Model all (CAR) with code 907 (Rear armrest heater)	<a href="#">GF83.20-P-1000A</a>
Â	Seat climate control, basic function	Model all (CAR) with code 401 (Climatised front seats) with code 906 (Front armrest heater) Model all (CAR) with code 402 (Rear seat climate control) with code 907 (Rear armrest heater) Model all (CAR) with code 872 (Left and right rear seat heating) with code 907 (Rear armrest heater) Model all (CAR) with code 873 (Left and right driver's seat heating) with code 906 (Front armrest heater) Model all (CAR) with code 902 (Seat heater Plus for driver and front passenger) with code 906 (Front armrest heater) Model all (CAR) with code 903 (Rear comfort seat heating) with code 907 (Rear armrest heater)	<a href="#">GF91.30-P-9902A</a>
Â	<b>Control units</b>	Â	Â
		Model all (CAR)	

Â	Armrest heating control unit, basic function	with code 906 (Front armrest heater) Model all (CAR) with code 907 (Rear armrest heater)	<a href="#">GF68.20-P-9890A</a>
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## INSIDE REARVIEW MIRROR DIMMING, BASIC FUNCTION - GF68.49-P-9900A

**Model all (CAR)**

**with code 249 (Automatic dimming inside rearview mirror and outside mirrors)**

### General

The "Auto dimming inside rearview mirror" function protects the driver from being dazzled by following traffic.

### Function requirements

- No overvoltage or undervoltage
- Circuit 15R ON
- Reverse gear not engaged
- Interior illumination not switched on

### Function

For the function, two photo sensors installed in the mirror measure the brightness difference between the traffic area in front of and behind the vehicle. The inside rearview mirror evaluates the sensor signals and if the light intensity behind the vehicle is greater than in front of the vehicle, it dims the mirror glass.

For this purpose, the inside rearview mirror has a special electrochromatic layer on the glass. This contains electrolytes consisting of uniform crystals, similar to a LCD display. The inside rearview mirror applies a voltage to this layer, the crystals align themselves in a specific angle as a result. This leads to an immediate and depending on the light intensity and sensor measurement to a continuously variable darkening effect.

The inside rearview mirror also transmits the dimming request to the outside mirrors.

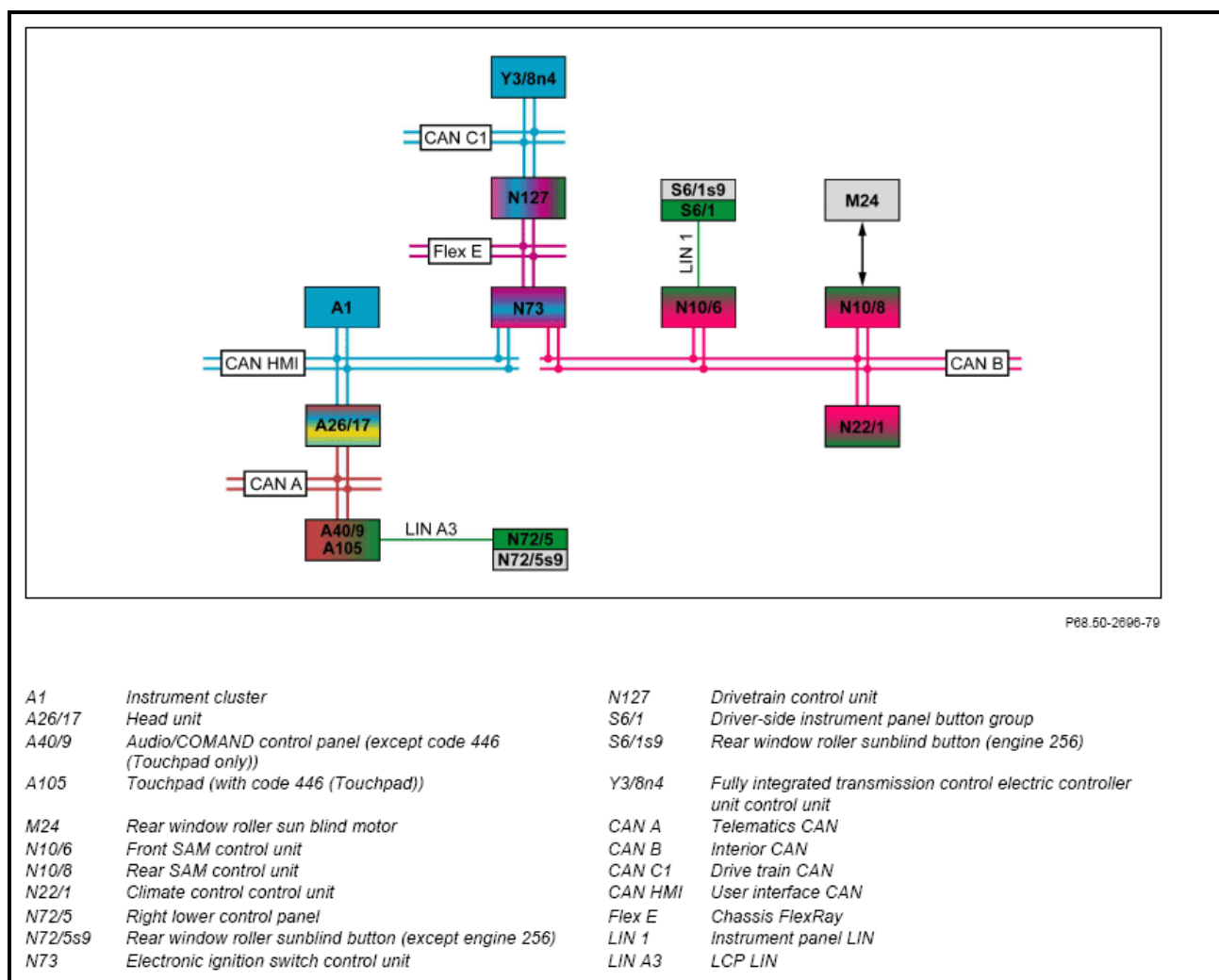
Â	<b>Additional basic functions</b>	Â	Â
Â	Automatic dimming of mirror glass of outside mirror, basic function	Â	<a href="#">GF88.79-P-1000A</a>
Â	<b>Function schematics</b>	Â	Â
Â	Function schematic for automatic dimming of mirror glass of inside and outside mirrors	Model 118, 167, 177, 247, 293 with code 249 (Automatic dimming inside rearview mirror and outside mirrors) Model 213, 238, 257, 290 as of model year 2021 with code 249 (Automatic dimming inside rearview mirror and outside mirrors) Model 243 with code 249 (Automatic dimming inside rearview mirror and outside mirrors)	<a href="#">PE88.79-P-2501-97A</a>
Â	Â	Model 206, 223, 232, 254, 295, 296, 297 with code 249 (Automatic dimming inside rearview mirror and outside mirrors)	PE88.79-P-2501-97B

## ROLLER SUN BLIND, FUNCTION - GF68.50-P-0004FR

**Model 257**

up to model year 2021

with code 540 (Electric roller blind for rear window)



### Function requirements, general

- Circuit 15R ON
- No overvoltage or undervoltage
- Overheating protection not activated
- Outside temperature above minimum temperature (adjustable with diagnostic tester) or inside temperature above 1Å°C

**i** The electronic ignition lock control unit sends the status of circuit 15 over the interior CAN to the rear SAM control unit.

The instrument cluster sends displayed outside temperature via user interface CAN, electronic ignition lock control unit and interior CAN to the rear SAM control unit.

The climate control control unit sends the current value of the interior temperature to the rear SAM control unit over the interior CAN.

## Roller sun blind, general

The roller sun blind is located in front of the rear window and can be extended and retracted vertically.

The roller sun blind can be extended or retracted manually by actuating the rear window roller sun blind button. Depending on the status of the reverse gear, the roller sun blind is automatically extended or retracted.

The roller sun blind is driven by the rear window roller sun blind motor. Two Hall sensors are integrated into the rear window roller sun blind motors for position sensing.

**i** The function includes a soft start-up and delaying of the roller sun blind in a defined range in front of the corresponding mechanical stop to reduce wear to the roller sun blind mechanism as well as noise development. This function is called "Soft stop".

**i** **Overheating protection:**

Every time the rear window roller sun blind motor is actuated, it is counted in the rear SAM control unit. If a defined threshold value is exceeded within a fixed time, the rear SAM control unit switches off the rear window roller sun blind motor to prevent overheating. New actuation is only possible after a cooling phase stored in the rear SAM control unit. The rear SAM control unit additionally evaluates the inside temperature. The climate control control unit sends the current value of the interior temperature to the rear SAM control unit over the interior CAN.

The roller sun blind function comprises the following partial functions:

- **Normalizing**
- **Extending or retracting roller sun blind**
- **Blockage detection**

### Normalizing

Normalization is the basis for the assignment of the current position to the position of the sun roller blind recorded by the rear SAM control unit. Normalization must be performed at the time the car is put into service and in the denormalized state. When normalizing the roller sun blind, the upper and lower mechanical end stop of the roller sun blind is actuated and the corresponding position of the rear SAM control unit is stored.

**i** By actuating the rear window roller sun blind for longer than 15 s, the roller sun blind is denormalized. This function can be deactivated via the diagnosis tester.

Normalization is started by pressing and holding down the rear window roller sun blind button. The roller sun blind is extended or retracted and switched off at reduced speed until the mechanical stop is reached. The location counter of other limit stop is set to zero. The normalization process is triggered when the function is activated again.

During the subsequent actuation of the rear window roller sun blind motor, the rear SAM control unit defines the adjustment range of the roller sun blind by counting the Hall sensor signals. Another blockage detection takes place at the mechanical end stop of the target position. The maximum adjustment range is stored in the corresponding location counter in the rear SAM control unit. Normalization is terminated.

**i** The roller sun blind is normalized automatically after moving 100 times in normal operation or if a lockup is detected.

### Extending or retracting roller sun blind

The roller sun blind can be extended and retracted manually or automatically.



## Extending or retracting roller sun blind manually by actuating the rear window roller sun blind button

- Except engine 256

The audio/COMAND control panel (except code 446 (Touchpad only)) or touchpad (with code 446 (Touchpad only)) reads in the status of the rear window roller sun blind button via UBF-LIN and transmits it via telematic-CAN, head unit, user interface CAN, electronic ignition lock control unit and interior CAN to the rear SAM control unit. The rear SAM control unit actuates the rear window roller sun blind motor directly. The roller sun blind is then extended and retracted.

- Engine 256

The front SAM control unit reads in the status of the rear window roller sun blind button over the instrument panel LIN and sends it over the interior CAN to the rear SAM control unit. The rear SAM control unit actuates the rear window roller sun blind motor directly.

### The roller sun blind is then extended and retracted.

Automatically extending or retracting roller sun blind Depending on the status of the reverse gear, the roller sun blind is automatically extended or retracted. Engaging gear range "R" generates the request to retract the roller sun blind.

The request to "Engage gear range R" is defined by the corresponding selector lever position. The fully integrated transmission control electric controller unit control unit transmits the selector lever position to the electronic ignition lock control unit via the drive CAN, powertrain control unit and suspension FlexRay.

The electronic ignition lock control unit uses it to generate the "Reverse gear engaged" status and sends it to the rear SAM control unit over the interior CAN. The rear SAM control unit then actuates the rear window roller sun blind motor in the retraction direction. The roller sun blind is retracted.

After ending reverse travel, the roller sun blind is automatically extended again if it has been retracted automatically beforehand.

Ending reverse travel is recognized if one of the following conditions are met:

- Reverse gear is recognized as "not engaged" for a specified time.
- Vehicle drives forward with a specified minimum speed.
- The engine is switched off.

The instrument cluster sends the information on the vehicle speed via user interface CAN, electronic ignition lock control unit and interior CAN to the rear SAM control unit.

The electronic ignition lock control unit sends the status of circuit 15 over the interior CAN to the rear SAM control unit.

The rear SAM control unit then actuates the rear window roller sun blind motor in the direction of "extend". The roller sun blind is extended.

**i** The roller sun blind can be stopped during extending and retracting in each position for test purposes. For this purpose the actuation of the rear window roller sun blind motor can be interrupted manually or with the diagnosis tester. To stop the roller sun blind manually, the rear window roller sun blind button must be pressed three times within 0.5 s. The rear SAM control unit then interrupts the actuation of the rear window roller sun blind motor. The roller sun blind remains in the current position.

### Blockage detection

Blocking is detected if no Hall sensor signals are received for a specific time during extension or retraction.

The SAM control unit reads in the signals of the rear window roller sun blind motor directly.

If the rear SAM control unit detects a lockup, it stops actuating the rear window roller sun blind motor. The rear SAM control unit then actuates the rear window roller sun blind motor in the opposite direction (lock-up reversing).

Â	Electrical function schematic for roller sun blind	Â	<a href="#">PE68.50-P-2052-97XBA</a>
Â	Overview of system components for windows and sightproofing	Â	<a href="#">GF67.00-P-9999FR</a>

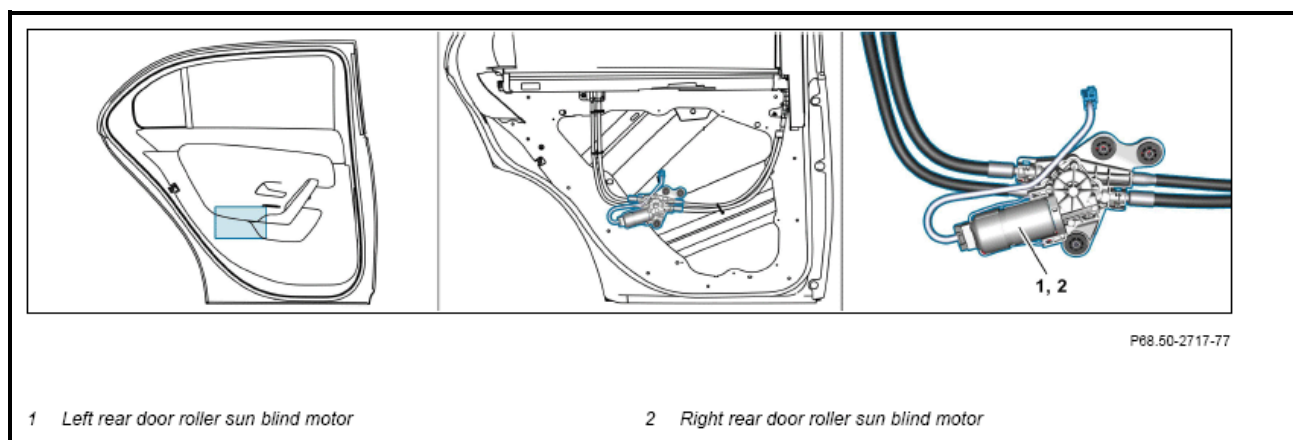
### **REAR PASSENGER COMPARTMENT SIDE WINDOW ROLLER SUNBLIND MOTOR, BASIC FUNCTION - GF68.50-P-2009A**

**Model all (CAR)**

**with code 297 (Electric roller sun blind in left and right rear door)**

**Model all (CAR)**

**with code M036 (Maybach version)**



#### **Location**

The rear door roller sunblind motors are located in the respective rear door.

The rear passenger compartment side window roller sunblind motors are on either side in the area of the D-pillar.

#### **Task**

The roller sunblind motors drive the roller sunblind linkage and thus facilitate opening and closing of the roller sunblinds of the rear doors and side windows. Triggered by the control elements in the rear passenger compartment, they are actuated respectively, depending on the side, by the left rear door control unit or by the right rear door control unit. If the driver operates the roller sunblinds, the roller sunblind motors are actuated directly by the driver's door control unit.

The position of the roller sunblind is defined by the evaluation of the signals of the Hall sensor in the roller sunblind motor.

### **EXTEND/RETRACT REAR PASSENGER COMPARTMENT SIDE WINDOW ROLLER SUNBLIND, BASIC FUNCTION - GF68.50-P-9901A**

**Model all (CAR)**

**with code 297 (Electric roller sun blind in left and right rear door)**

## **Model all (CAR)**

**with code M036 (Maybach version)**

### **Overview**

This document contains the following information:

- **General**
- **Function requirements**
- **Function**

### **General**

The roller sunblinds of the side windows in the rear are, in each case, driven by an electric motor and can almost fully cover the side windows. They protect the vehicle occupants in the rear against exposure to too strong sunlight and undesired glances.

The model 167.9 Maybach additionally has roller sunblinds on the side windows in the load compartment.

### **Function requirements**

- Corresponding side window in rear closed
- Circuit 15R ON or control unit power-down active (manual operation)



#### **Control unit power-down**

After circuit 15R OFF, the roller sunblinds can still be manually operated for 5 min.

### **Function**

The actuation of the roller sunblind motors can be triggered via the relevant control element in the rear and in the driver's door.

In vehicles with Remote Online, the actuation can also be triggered in a web-based manner via a browser (e.g. tablet/PC/smartphone).



The controls in the rear can be disabled by activating the electrical child safety lock.

The respective roller sunblind is always full extended or retracted. It is not possible to stop in an intermediate position. Every addition request reverses the active actuation.

In normalized state, the roller sunblinds have the following functions:

- Smooth start and stop (to protect the mechanical components and reduce the noise development)
- Automatic reserving function

In the denormalized state, the components are protected against overloads by the blockage detection.

The automatic reversing function and the blockage detection each result in the reversal of the active actuation. The affected roller sunblind is then full extended or retracted.

### **Additionally on model 167.9 Maybach**

Using the pushbutton switch in the rear doors and the driver's door, the roller sunblinds of the side windows in the load compartment can also be actuated.

When the side window is closed, briefly pull the respective button on the roller sunblind to be closed; to open it, briefly press it.

**i** The automatic operation cannot be paused by actuating again.

Function schematics		
Extend/retract rear passenger compartment side window roller sunblind, function schematic	Model 167 (except 167.967/987) with code 297 (Electric roller sun blind in left and right rear door) except code M036 (Maybach version) Model 167.967/987 with code 297 (Electric roller sun blind in left and right rear door) with code M036 (Maybach version)	PE68.50-P-2500-97A PE68.50-P-2500-97C
	Model 223, 296 with code 297 (Electric roller sun blind in left and right rear door)	PE68.50-P-2500-97B
<b>Subsystem</b>		
Electric child safety lock, basic function		<a href="#">GF72.29-P-1001A</a>
Normalize electrically driven component parts, basic function		<a href="#">GF82.00-P-1000A</a>
Blockage detection, basic function		<a href="#">GF82.00-P-1001A</a>
Automatic reversing, basic function		<a href="#">GF82.00-P-1002A</a>
<b>Control units</b>		
Front door control unit, basic function		<a href="#">GF72.29-P-9891A</a>
Rear door control unit, basic function		<a href="#">GF72.29-P-9892A</a>
<b>Components</b>		
Rear passenger compartment side window roller sunblind motor, basic function		<a href="#">GF68.50-P-2009A</a>
Power window assembly and outside mirror adjustment switch group, driver's side, basic function		<a href="#">GF72.29-P-2006A</a>

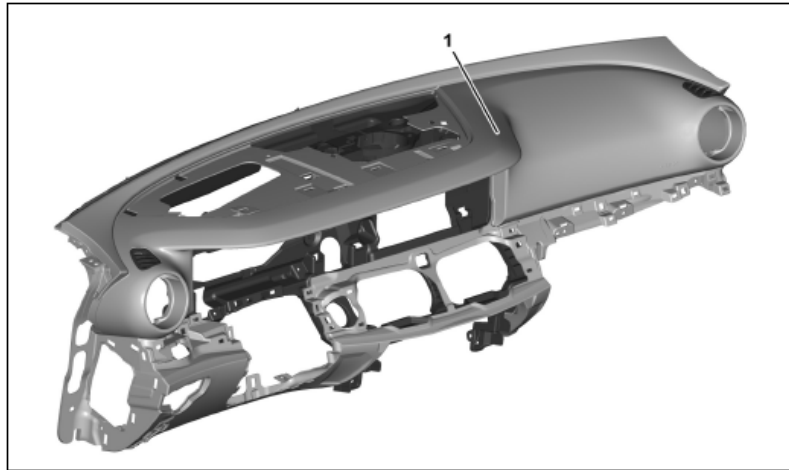
## **TESTING & REPAIR**

### **REMOVE/INSTALL DASHBOARD - AR68.10-P-1000FR**

**Model 257, 290**

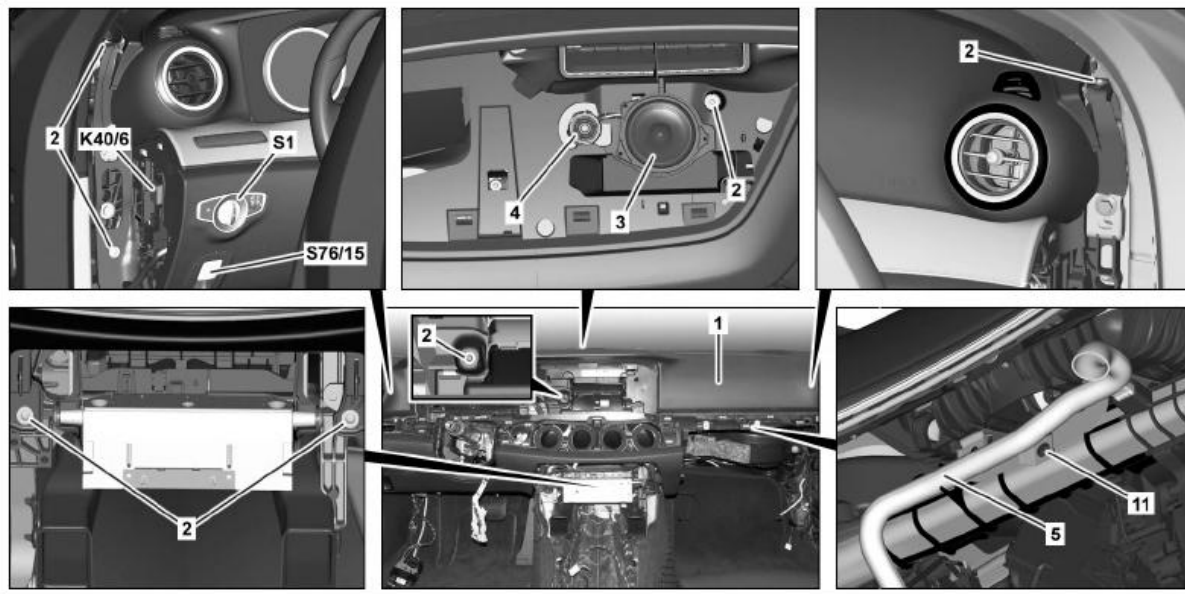


1 Instrument panel



P68.10-4982-05

Shown on model 257 with code 811 (Advanced Sound System)



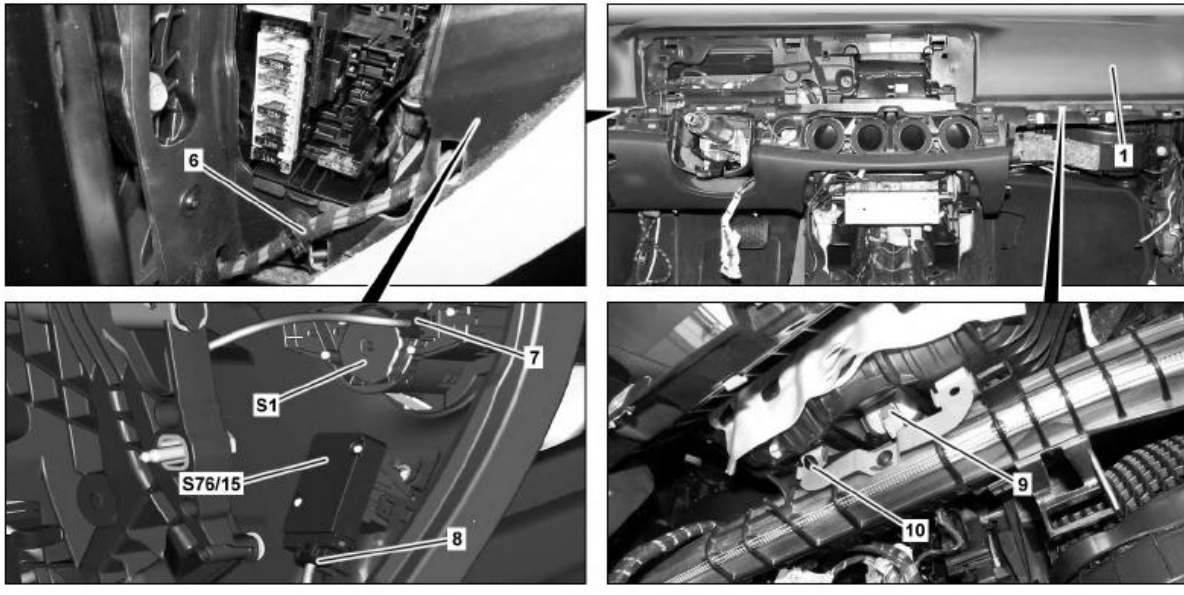
P68.10-4983-09

- 1 Instrument panel
- 2 Bolts
- 3 Speaker
- 4 Speaker
- 5 Air duct

- 11 Screw
- K40/6 Driver-side fuse and relay module
- S1 Exterior lights switch
- S76/15 Electric parking brake switch

Shown on model 257










P68.10-4984-09

- |                                                                                                                          |                                                                                                                                    |
|--------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| <p>1 Instrument panel</p> <p>6 Electrical wiring harness</p> <p>7 Electrical connector</p> <p>8 Electrical connector</p> | <p>9 Electrical connector</p> <p>10 Mounting clip</p> <p>S1 Exterior lights switch</p> <p>S76/15 Electric parking brake switch</p> |
|--------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|

	<b>WARNING!</b> Risk of injury during testing and repair operations related to pyrotechnical components	Do not expose pyrotechnical component parts to temperatures above 100°C or 212°F. Disconnect current supply when working on such component parts.	<a href="#">AS91.00-Z-0008-01A</a>
Topical note	Information on preventing damage to electronic components due to electrostatic discharge	^	<a href="#">AH54.00-P-0001-01A</a>
^	Notes on safety-relevant components	^	<a href="#">AH00.00-Z-0019-01A</a>
^	Information, assessment and legal requirements when working with, handling and storing pyrotechnical components	^	<a href="#">AH91.00-Z-0000-10A</a>
	<b>Remove/install</b>	^	^
1	Move steering wheel all the way to the rear and to the bottom.	^	^
2	Remove center console.	Model 257	<a href="#">AR68.20-P-2000FR</a>
^	^	Model 290	AR68.20-P-2000FRX
3	Remove display module.	^	<a href="#">AR54.30-</a>

			<a href="#">P-6023FR</a>
4	Remove trim element at instrument panel (1) on driver's side.	Â	<a href="#">AR68.10-P-1186FR</a>
5	Remove driver knee airbag.	Â	<a href="#">AR91.60-P-0200FR</a>
6	Remove glove compartment.	 <b>Installation</b> Ensure that the air duct (5) is seated correctly on the glove compartment.	<a href="#">AR68.10-P-1402FR</a>
7	Remove trims at left and right A-pillar.	Â	<a href="#">AR68.30-P-4050FR</a>
8	Remove steering column module.	Â	<a href="#">AR54.25-P-2802FR</a>
9	Remove driver's side air vent.	Â	<a href="#">AR83.10-P-4507FR</a>
10	Remove front-passenger side air vent.	Â	<a href="#">AR83.10-P-4508FR</a>
11	Remove air duct (5).	Â	Â
12	Remove speaker (3).	Model 257, 290 with code 360 (HERMES UMTS) Model 257, 290 with code 362 (HERMES LTE) Model 257, 290 with code 810 (Sound system) Model 257, 290 with code 811 (Advanced sound system)	<a href="#">AR82.62-P-7833FR</a>
13	Remove speaker (4).	Model 257, 290 with code 811 (Advanced sound system)	<a href="#">AR82.62-P-7833FR</a>
14	Unclip electrical wiring harness (6) from instrument panel (1).	 Dismantling tool	<a href="#">Fig. 2</a>
15	Remove driver's side fuse and relay module (K40/6).	Â	<a href="#">AR54.15-P-0003FR</a>
16	Disconnect electrical connector (7) at exterior lights switch (S1).	Â	Â
17	Disconnect electrical connector (8) at electric parking brake switch (S76/15).	Â	Â
18	Disconnect electrical connector (9) at front passenger airbag.	 Model 257, 290 with code 460 (Canada version) Model 257, 290 with code 494 (US version) There are three electrical connectors (9) on the front passenger airbag.  Removal lever	<a href="#">Fig. 3</a>
19	Unclip retaining clip (10) from front passenger airbag bracket.	 Dismantling tool	<a href="#">Fig. 2</a>
			<a href="#">*BA91.60-</a>

20	Remove screw/bolt (11).	<b>Nm</b> Screw/bolt, front passenger airbag unit to crossmember	<b>P-1002-01O</b>
21	Unscrew bolts (2).	Â	Â
22	Carefully remove instrument panel (1) from vehicle.	<b>i</b> Aid of helper required.	Â
23	Install in the reverse order.	Â	Â

**AIRBAG**

Number	Designation	Model 257	Model 290
BA91.60-P-1002-01O	Screw/bolt, front passenger airbag unit to crossmember Nm	4	4

**Fig. 2: Identifying Dismantling Tool (000 589 95 63 00)**

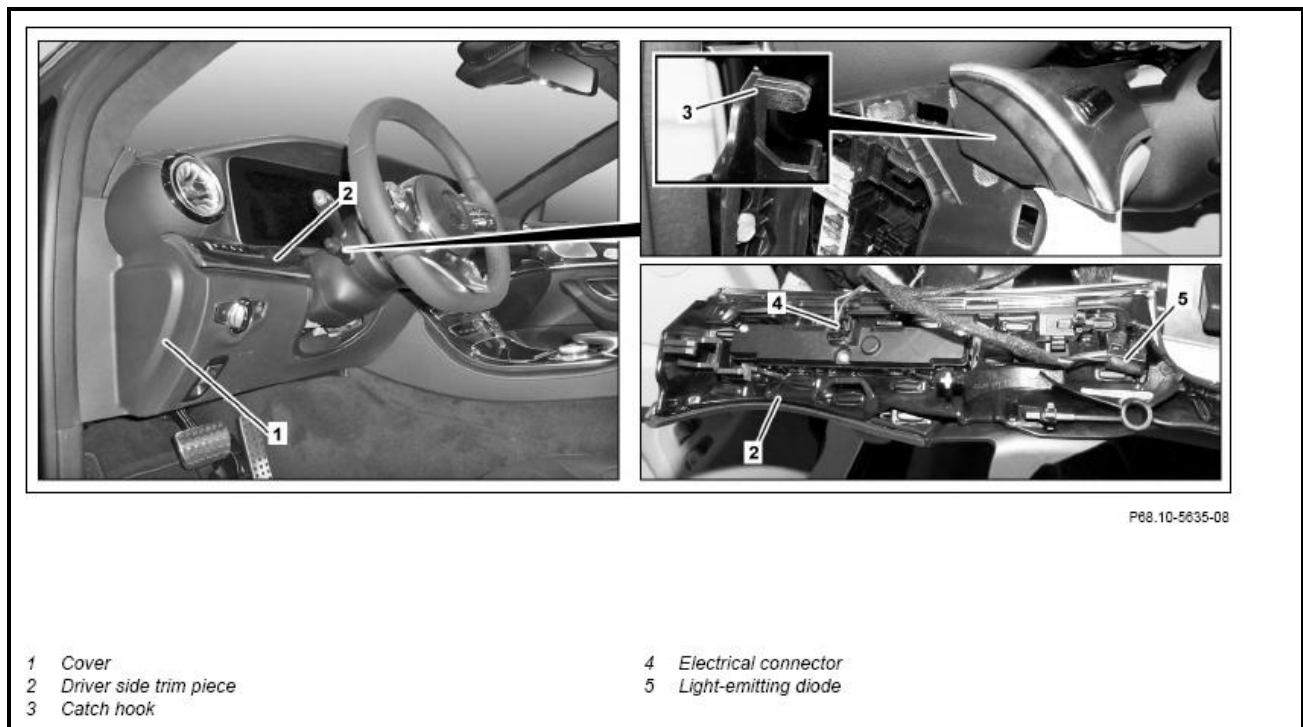
Courtesy of MERCEDES-BENZ USA

**Fig. 3: Identifying Removal Lever (203 589 04 33 00)**

Courtesy of MERCEDES-BENZ USA

**REMOVE/INSTALL TRIM PIECE ON DRIVER-SIDE INSTRUMENT PANEL - AR68.10-P-1186FR**






Model 257, 290



Shown on model 257.### 1# with code 891 (Premium ambient lighting) and with code 23P (Driving Assistance Package)

Topical note	Information on preventing damage to electronic components due to electrostatic discharge	Â	<b>AH54.00-P-0001-01A</b>
	Remove/install	Â	Â



1	Remove display module and place to one side with connected electric lines.	Â	<a href="#">AR54.30-P-6023FR</a>
2	Release edge guard in the area of the cover (1).	 <b>Installation</b> Ensure that edge guard is seated correctly.	Â
3	Remove cover (1).	 Long wedge	<a href="#">Fig. 4</a>
4	Unclip driver's side trim piece (2).	 Start to unclip in area of steering column  Long wedge	<a href="#">Fig. 4</a>
5	Push driver's side trim piece (2) toward the outside and turn it over.	 Observe catch hook (3).	Â
6	Disconnect light-emitting diode (5) from fiber-optic cable.	Model 257, 290 with code 891 (Premium ambiance illumination)	Â
7	Disconnect electrical connection (4).	Model 257 with engine 256 with code 540 (Electric sunblind for rear window) Model 257 with code 235 (Active Parking Assist with PARKTRONIC) Model 257 with code 23P (Driving Assistance package) Model 257 with code 243 (Active lane keeping Assist) Model 257 with code 463 (Head-up display) Model 257 with code 489 (AIR BODY CONTROL) Model 257 with code P20 (Driving Assistance package Plus) Model 290	Â
8	Remove driver's side trim piece (2).	Â	Â
9	Remove driver's side instrument panel button group.	When replacing driver's side trim element (2). Model 257 with engine 256 with code 540 (Electric sunblind for rear window) Model 257 with code 235 (Parking Pilot with PARKTRONIC) Model 257 with code 23P (Driving Assistance package) Model 257 with code 243 (Active lane keeping Assist)	<a href="#">AR54.25-P-1004FR</a>

		Model 257 with code 463 (Head-up display) Model 257 with code 489 (AIR BODY CONTROL) Model 257 with code P20 (Driving Assistance package Plus) Model 290	
10	Install in the reverse order.	Â	Â

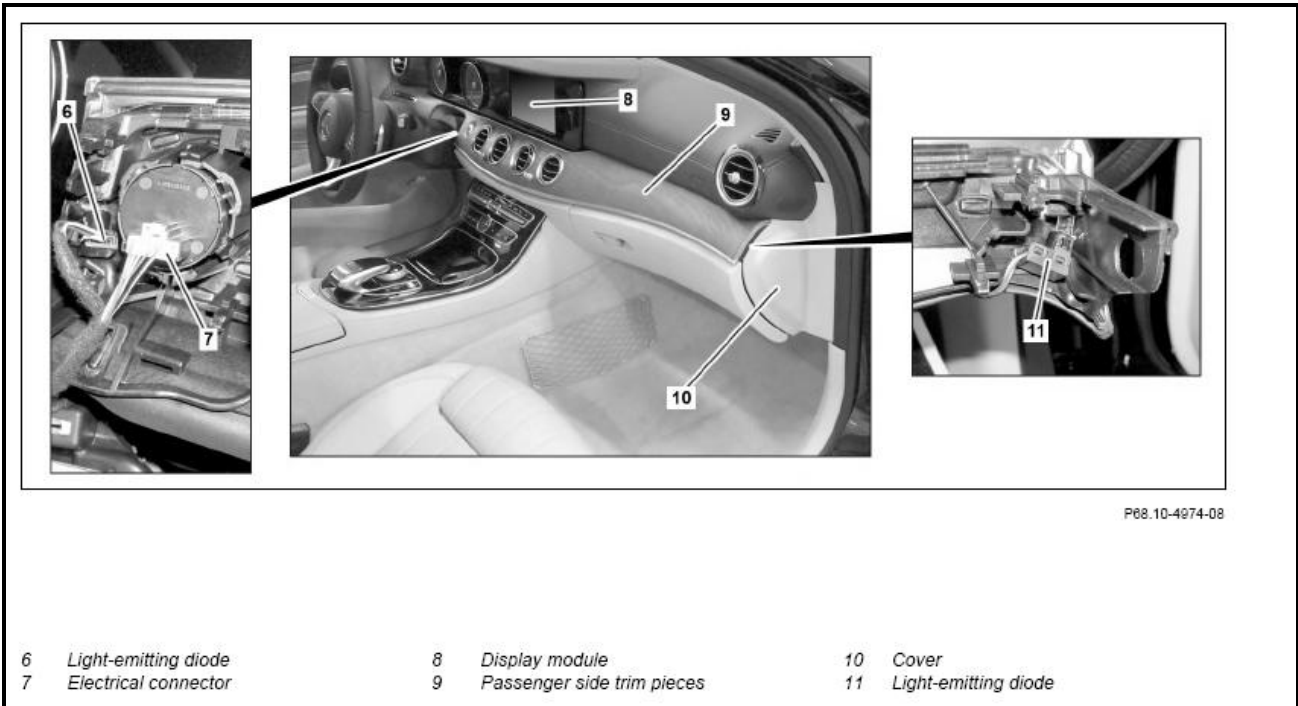
**Fig. 4: Identifying Long Wedge (115 589 03 59 00)**

Courtesy of MERCEDES-BENZ USA

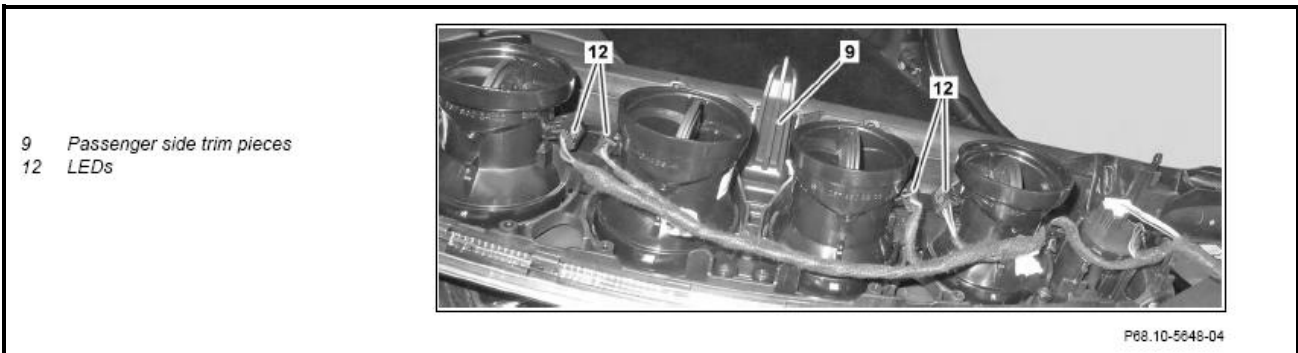
**REMOVE/INSTALL TRIM PIECE ON PASSENGER-SIDE INSTRUMENT PANEL - AR68.10-P-1187FR**







Model 257, 290

Shown on model 257.### 1# with code 891 (Premium ambient lighting)



Shown on model 257 with code 891 (Premium ambient lighting)



Topical note	Information on preventing damage to electronic components due to electrostatic discharge	Â	<a href="#">AH54.00-P-0001-01A</a>
	<b>Remove/install</b>	Â	Â
1	Move steering wheel all the way to the rear and to the bottom.	Â	Â
2	Disconnect ground line from battery.	Â	<a href="#">AR54.10-P-0003FR</a>
3	Release edge guard in the area of the cover (10).	 <b>Installation</b> Ensure that edge guard is seated correctly.	Â
4	Remove cover (10).	 Long wedge	<a href="#">Fig. 5</a>
5	Remove display module (8) and place to one side with connected electric lines.	Â	<a href="#">AR54.30-P-6023FR</a>
6	Unclip front passenger side trim piece (9) along the entire length at the bottom.	 Start unclipping in the area of the previously removed cover (10).  Long wedge	<a href="#">Fig. 5</a>
7	Tilt front passenger side trim piece (9) slightly toward the top and guide out of the instrument panel.	 <b>Installation</b> Pay attention for correct seat on center nozzles and separation point to driver side trim piece.	Â
8	Detach electrical connector (7).	Â	Â
9	Disconnect light-emitting diodes (6, 11, 12) from the fiber-optic cables.	Model 257, 290 with code 891 (Premium ambiance illumination)	Â
10	Remove front passenger side trim piece (9).	Â	Â
11	Remove KEYLESS-GO start/stop button.	When replacing front passenger side trim element (9).	<a href="#">AR54.25-P-4000FR</a>
12	Remove center air vent.	When replacing front passenger side trim element (9).	<a href="#">AR83.10-P-4509FR</a>
13	Install in the reverse order.	Â	Â

**[Fig. 5: Identifying Long Wedge \(115 589 03 59 00\)](#)**

Courtesy of MERCEDES-BENZ USA

**REMOVE/INSTALL LOCK CYLINDER ON GLOVE COMPARTMENT - AR68.10-P-1251FR**

Model 257, 290

**[Fig. 6: Glove Compartment Lock Cylinder Component Location - Model 257](#)**

Courtesy of MERCEDES-BENZ USA

Shown on model 257

- 3 Eccentric disk
- 5 Housing



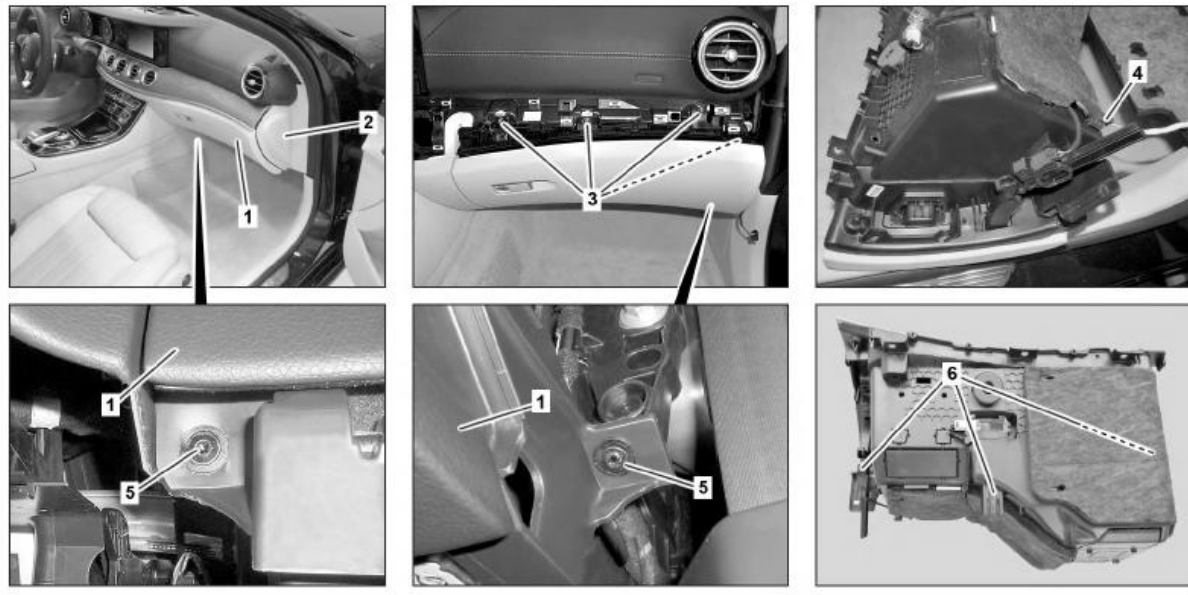
P68.10-4626-11

	<b>Remove</b>	Â	Â
1	Insert emergency key (4) into lock cylinder (1) and turn approx. 45° as shown.	Â	Â
2	Remove lock cylinder (1) with emergency key (4) from housing (5).	Hold housing (5).	Â
	<b>Check</b>	Â	Â
3	Check position of edge (arrow A) of eccentric disk (3) in housing (5).	The edge (arrow A) of the eccentric disk (3) must be at approx. 45° as shown in the figure. The positions of the edges (arrows A and B) are turned 180°.	Â
4	Correct position of eccentric disk (3) at edges (arrows B).	If required.  Do not press to eccentric disk (3) in axial direction. Otherwise the eccentric disk (3) can be pressed off of the housing (5). Turn eccentric disk (3) at edges (arrows B).	Â
	<b>Install</b>	Â	Â
5	Insert lock cylinder (1) into housing (5) in 45° position with the emergency key (4).	Lock cylinder (1) should arrest noticeably.	Â
6	Remove emergency key (4) from lock cylinder (1).	Â	Â

### REMOVE/INSTALL GLOVE COMPARTMENT - AR68.10-P-1402FR

Model 257, 290





P88.10-4958-09

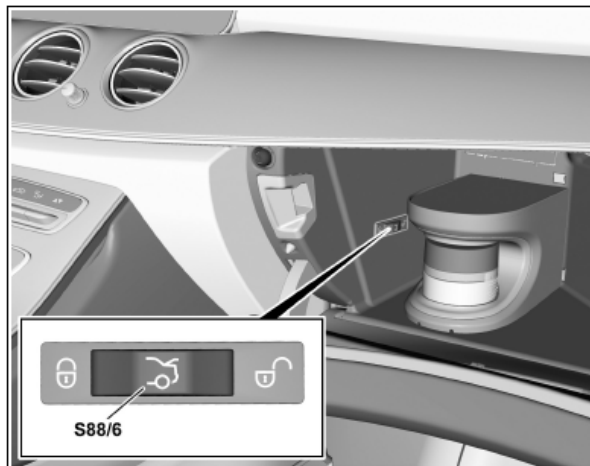
1 Glove compartment  
2 Cover

3 Bolts  
4 Electrical connector

5 Screw  
6 Guides



Shown on model 257 except code P21 (air quality package)

S88/6 Separate trunk lid lock switch



P80.20-3894-11

Shown on model 257 with code P21 (air quality package) and with code 887 (separate trunk locking)

	Remove/install	Â	Â
1	Remove trim piece from front passenger side instrument panel and place to one side.	 Do not disconnect electrical connectors.	<a href="#">AR68.10-P-1187FR</a>
	Remove trim under front passenger side		<a href="#">AR68.10-</a>

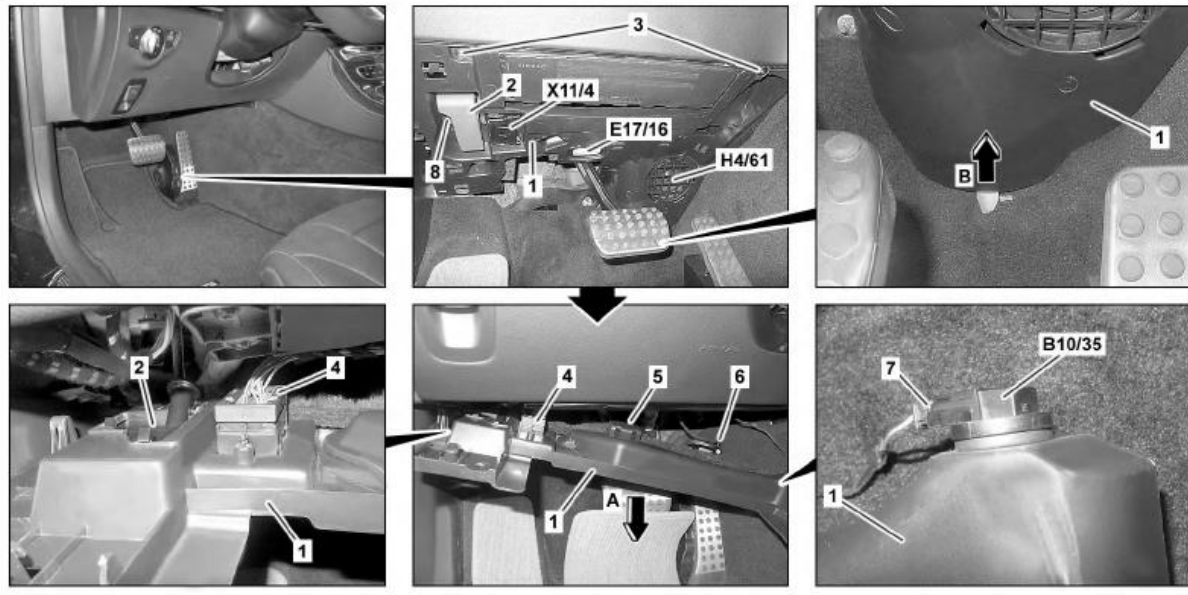
2	instrument panel.	Â	<a href="#">P-1502FR</a>
3	Remove bolts (5).	Â	Â
4	Remove screw/bolts (3).	<b>i</b> One bolt (3) is located in the glove compartment (1) on right.	Â
5	Pull out glove compartment (1) until the electrical connector (4) is accessible.	<b>i</b> <b>Installation</b> Push guides (6) of glove compartment (1) into instrument panel.	Â
6	Detach air duct from glove compartment (1).	Â	Â
7	Disconnect electrical connection (4).	Â	Â
8	Disconnect electrical connector from separate trunk locking switch (S88/6).	Model 257 with code 887 (independent boot locking)	Â
9	Disconnect electrical connector and hose from fragrance system alternator.	Model 257, 290 with code P21 (Air quality package)	<a href="#">AR83.40-P-0201FR</a>
10	Remove glove compartment (1).	Â	Â
11	Remove separate trunk locking switch (S88/6) from the glove compartment (1).	Model 257 with code 887 (independent boot locking) When replacing glove compartment (1).	Â
12	Remove fragrance system alternator from the glove compartment (1).	Model 257, 290 with code P21 (Air quality package) When replacing glove compartment (1).	<a href="#">AR83.40-P-0201FR</a>
13	Remove glove compartment lamps from the glove compartment (1).	When replacing glove compartment (1).	Â
14	Install in the reverse order.	Â	Â

**REMOVE/INSTALL BOTTOM PANELING FOR DASHBOARD ON DRIVER SIDE - AR68.10-P-1501FR**

**Model 257, 290**

**Shown on model 257.### 1#**





P68.10-5947-09

- |   |                            |        |                                             |
|---|----------------------------|--------|---------------------------------------------|
| 1 | Cover                      | 7      | Electrical connector                        |
| 2 | Engine hood release handle | 8      | Screw                                       |
| 3 | Bolts                      | B10/35 | Left footwell air outlet temperature sensor |
| 4 | Electrical connector       | E17/16 | Left front footwell lamp                    |
| 5 | Electrical connector       | H4/61  | Instrument cluster speaker                  |
| 6 | Electrical connector       | X11/4  | Diagnostic connector                        |

Topical note	Information on preventing damage to electronic components due to electrostatic discharge	Â	<a href="#">AH54.00-P-0001-01A</a>
	<b>Remove/install</b>	Â	Â
1	Adjust steering column upward.	Â	Â
2	Adjust driver seat to the rear.	Â	Â
3	Switch off ignition and store transmitter key outside of transmission range (min. 2 m).	Â	Â
4	Remove front door sill.	Â	Â
5	Remove screw/bolts (3).	Â	Â
6	Loosen trim (1) and lower (arrow A) until electrical connectors (4, 5, 6, 7) are accessible.	Long wedge	<a href="#">Fig. 7</a>
7	Disconnect electrical connectors (4, 5, 6, 7).	Â	Â
8	Remove screw/bolt (8).	Â	Â
9	Remove engine hood release handle (2) to the rear out of trim (1).	Â	Â
10	Unhook retaining tab of trim (1) from floor covering (arrow B) and remove trim (1).	Â	Â
11	Remove diagnostics connection (X11/4).	When replacing trim (1).	Â
		When replacing	

12	Remove instrument cluster speaker (H4/61).	trim (1).	Â
13	Remove left footwell vent air outlet temperature sensor (B10/35) or right footwell vent air outlet temperature sensor.	When replacing trim (1).	Â
14	Remove left front footwell lamp (E17/16) or right front footwell lamp.	When replacing trim (1).	Â
15	Install in the reverse order.	Â	Â

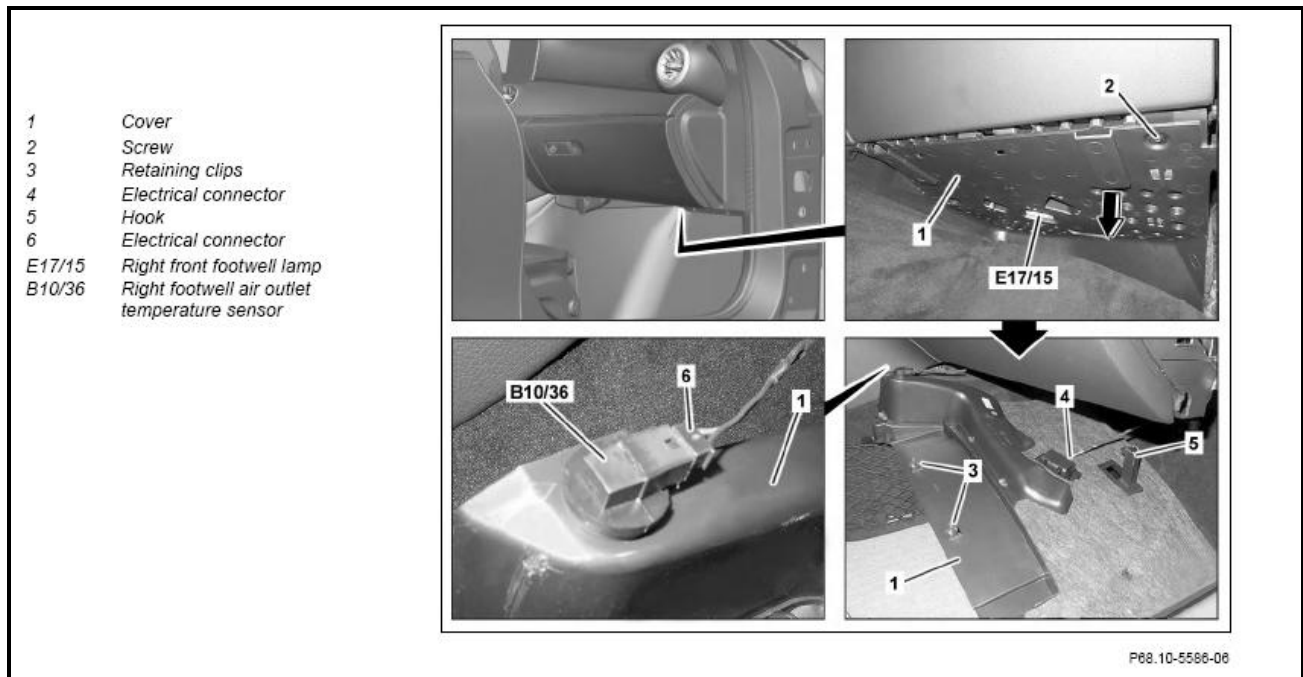
**Fig. 7: Identifying Long Wedge (115 589 03 59 00)**

Courtesy of MERCEDES-BENZ USA

**REMOVE/INSTALL BOTTOM PANELING FOR DASHBOARD ON PASSENGER SIDE - AR68.10-P-1502FR**

Model 257, 290

Shown on model 257.### 1#



Topical note	Information on preventing damage to electronic components due to electrostatic discharge	Â	<a href="#">AH54.00-P-0001-01A</a>
	<b>Remove/install</b>	Â	Â
1	Adjust front passenger seat to the rear.	Â	Â
2	Remove front door sill.	Â	Â
3	Switch off ignition and store transmitter key outside of transmission range (min. 2 m).	Â	Â
4	Remove screw/bolt (2).	Â	Â
5	Unclip trim (1) from retaining clamps (3).	Long wedge	<a href="#">Fig. 8</a>
	Push trim (1) on bracket (5) to the outside, unhook, and lower (arrow) until		



6	electrical connectors (4, 6) are accessible.	Â	Â
7	Disconnect electrical connectors (4, 6).	Â	Â
8	Remove trim (1).	Â	Â
9	Remove right footwell vent air outlet temperature sensor (B10/36) or left footwell vent air outlet temperature sensor.	When replacing trim (1).	Â
10	Remove right front footwell lamp (E17/15) or left front footwell lamp.	When replacing trim (1).	Â
11	Install in the reverse order.	Â	Â

**Fig. 8: Identifying Long Wedge (115 589 03 59 00)**

Courtesy of MERCEDES-BENZ USA

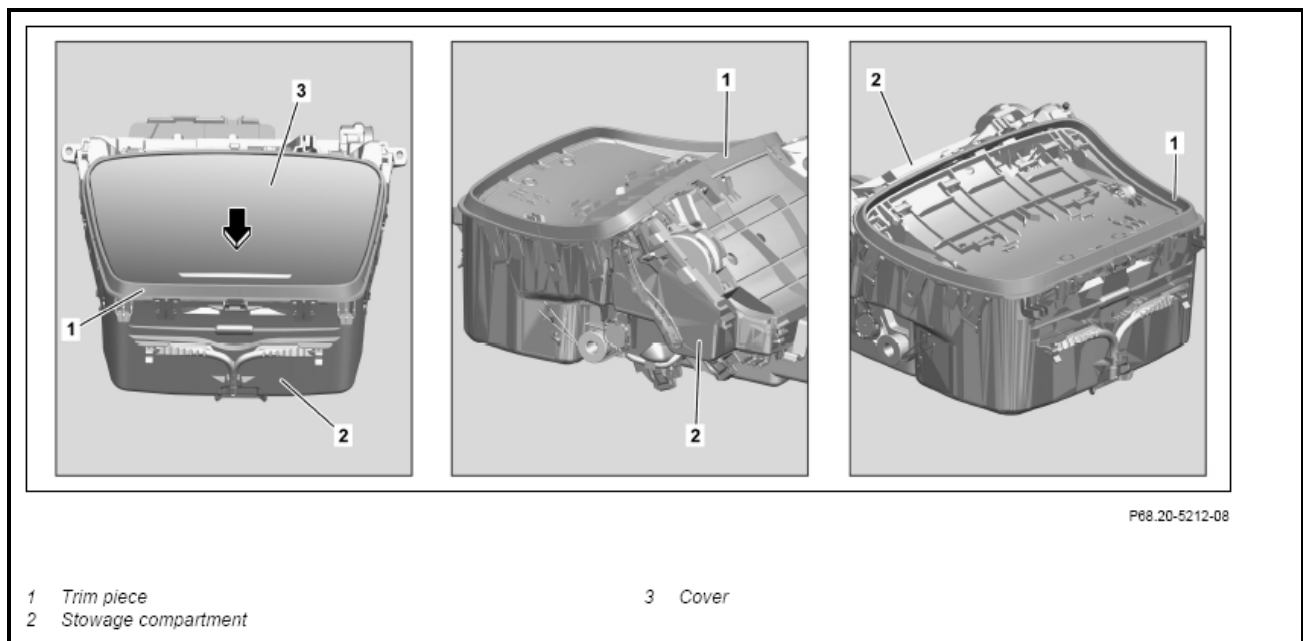
**REMOVE/INSTALL CENTER CONSOLE STOWAGE COMPARTMENT TRIM ELEMENT - AR68.20-P-0002LWE**

Model 205 with transmission 722, 724, 725




Model 213, 238, 257 with transmission 725

Model 253 with transmission 724, 725

Model 293



	Remove/install	Â	Â
1	Remove stowage compartment (2) in the front center console.	Model 293 Model 205 with transmission 722, 724, 725 Model 213, 238, 257 with transmission 725 Model 253 with transmission 724, 725	AR68.20-P-0901EQ <b>AR68.20-P-0901LWM</b>

2	Unclip cover (3) in the direction of the arrow from the stowage compartment (2) and remove.	 <b>Installation</b> Before clipping in, ensure correct positioning of the cover (3). Otherwise, the fasteners and the cover (3) may be damaged.	Â
3	Release trim piece (1) from the retaining tabs all around the stowage compartment (2).	 <b>Installation</b> Ensure correct engagement of the retaining tabs.  Long wedge	<a href="#">Fig. 9</a>
4	Remove trim piece (1).	Â	Â
5	Install in the reverse order.	Â	Â

**[Fig. 9: Identifying Long Wedge \(115 589 03 59 00\)](#)**

Courtesy of MERCEDES-BENZ USA

**REMOVE/INSTALL STOWAGE COMPARTMENT IN FRONT CENTER CONSOLE - AR68.20-P-0901LWM**

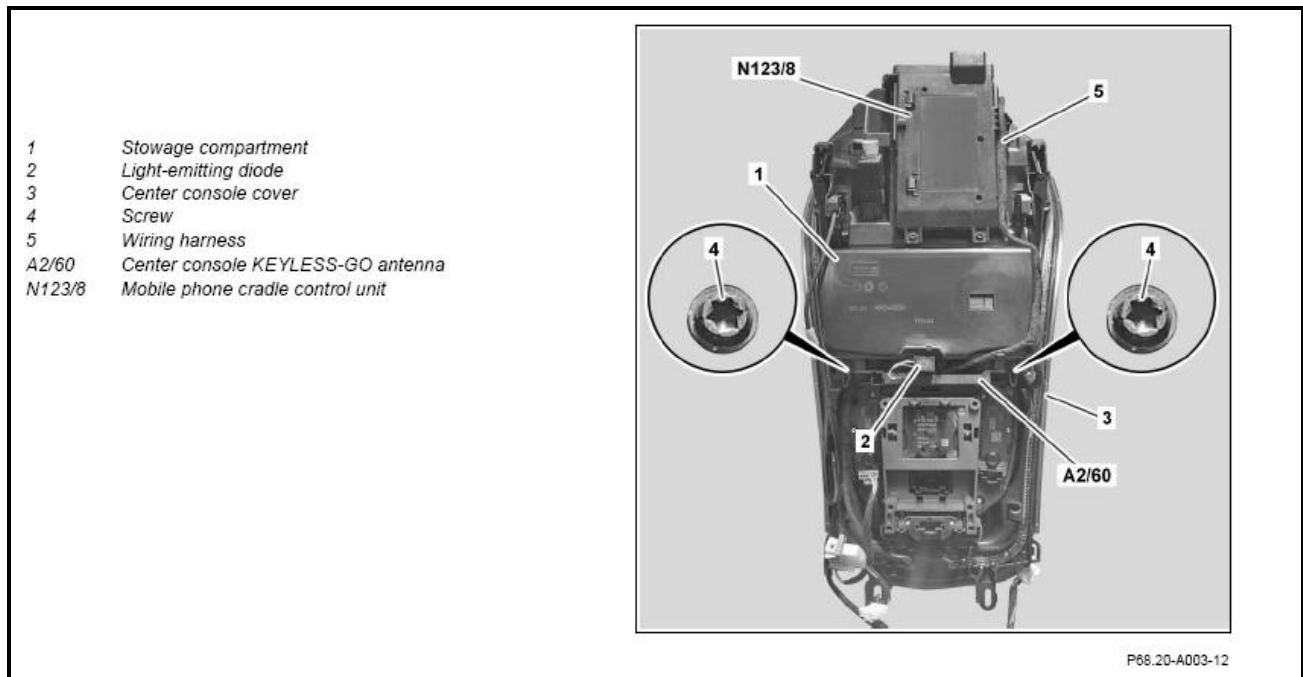
**Model 205**


**Model 213, 238**

**Model 253**

**Model 257**

**Shown on model 205 with transmission 722 and code 897 (wireless mobile phone charging) and code 889 (KEYLESS-GO)**



<b>Topical note</b>	Information on preventing damage to electronic components due to electrostatic discharge	Â	<a href="#">AH54.00-P-0001-01A</a>
	<b>Remove/install</b>	Â	Â
1	Remove center console cover (3).	Model 257	<a href="#">AR68.20-P-2350FR</a>
Â	Â	Model 238 with transmission 725	AR68.20-P-2350LWO
Â	Â	Model 238 with transmission 716	AR68.20-P-2350LWP
Â	Â	Model 205 with transmission 722, 724, 725 Model 213 with transmission 725 Model 253 with transmission 724, 725	AR68.20-P-2350LW
Â	Â	Model 205 with transmission 716 Model 213 with transmission 716 Model 253 with transmission 716	AR68.20-P-2350LWA
2	Disconnect light-emitting diode (2) from fiber-optic cable.	Model 205, 213, 238, 253 with code 877 (ambient lighting) Model 257 with code 891 (Premium ambiance illumination)	Â
3	Expose wiring harness (5).	Model 205 with transmission 722, 724, 725 with code 877 (ambient lighting) Model 253 with transmission 725 with code 877 (ambient lighting)	Â
4	Unscrew screw/bolts (4).	Â	Â
5	Remove stowage compartment (1) from the center console cover (3).	Â	Â
6	Remove center console KEYLESS-GO antenna (A2/60).	Only when replacing stowage compartment (1). Model 213, 238 Model 253 with code 889 (KEYLESS-GO) Model 253 with code 893 (KEYLESS-GO) Model 205 with code 889 (KEYLESS-GO) Model 205 with code 893 (KEYLESS-GO)	AR80.61-P-0041LWG AR80.61-P-0041LW <a href="#">AR80.61-P-0041FR</a>
7	Remove mobile phone cradle control unit (N123/8).	Only when installing new stowage compartment (3). Model 213, 238 with transmission 725 with code 896 (Vehicle access and drive authorization via mobile phone) Model 213, 238 with transmission 725 with code 897 (Wireless mobile phone charging) Model 213, 238 with transmission 725 with code 899 (Multifunction telephony) Model 257 with code 897 (Wireless mobile phone charging) Model 257 with code 899 (Multifunction telephony)	AR82.70-P-0007LWE <a href="#">AR82.70-P-0007FR</a>

Â	Â	Model 205 as of model year 2019 with code 897 (Wireless mobile phone charging) Model 205 as of model year 2019 with code 899 (Multifunction telephony)	AR82.70- P- 0007LWM
8	Install in the reverse order.	Â	Â


**REMOVE/INSTALL CENTER CONSOLE - AR68.20-P-2000FR**

**Model 257**

P68.20-5005-09

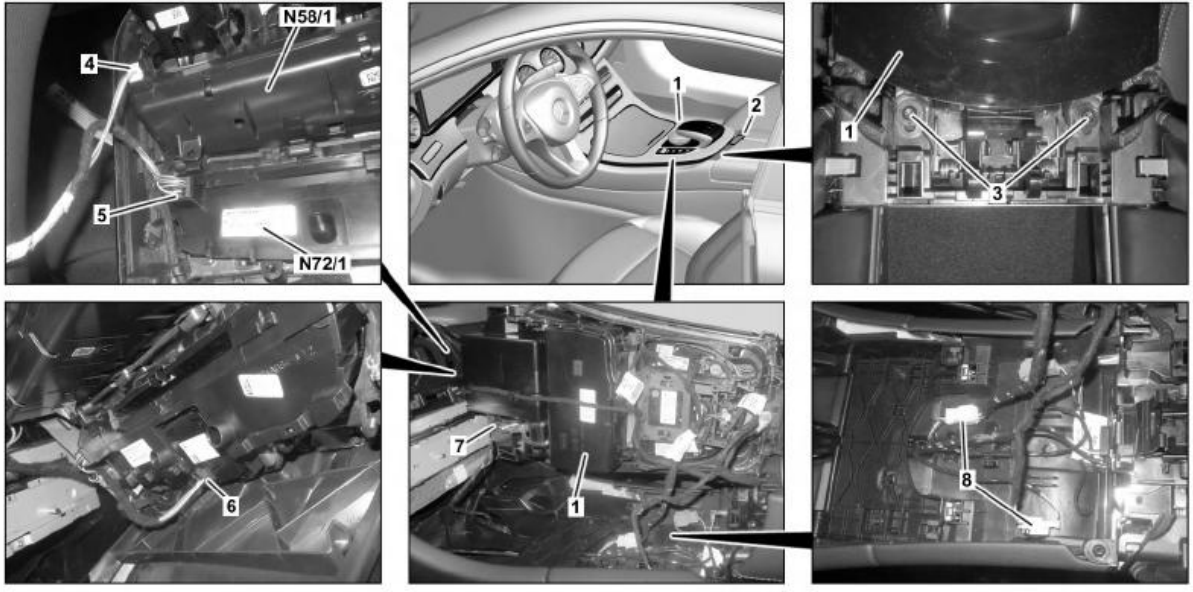
1 Center console	4 Electrical connectors	7 Nuts
2 Center console cover	5 Electrical sockets	8 Electrical connector
3 Bolts	6 Cover	9 Electrical connector

	<b>Remove/install</b>	Â	Â
1	Remove cover of center console (2)	Â	<a href="#">AR68.20-P-2350FR</a>
2	Remove bolts (3)	Â	Â
3	Disconnect electrical connectors (4) and expose electrical wiring harness on center console (1)	<p> The number can vary according to the equipment.</p> <p> <b>Installation</b> Secure electrical wiring harness in guide (arrow A).</p>	Â
4	Unclip electrical sockets (5) from center console (1)	<p> The number can vary according to the equipment.</p>	Â
5	Remove rear cover on center console (1)	Â	<a href="#">AR68.20-</a>

			<a href="#">P-2358FR</a>
6	Place cover (6) to one side	Â	Â
7	Unscrew nuts (7)	Â	Â
8	Lift center console (1) at rear and disconnect electrical connectors (8, 9)	 The number can vary according to the equipment.	Â
9	Move center console (1) toward rear out of instrument panel	Â	Â
10	Install in the reverse order	Â	Â


**REMOVE/INSTALL COVER ON CENTER CONSOLE - AR68.20-P-2350FR**




**Model 257**



P68.20-5128-09

1	Center console cover	6	Electrical connector
2	Stowage box cover	7	Electrical connector
3	Bolts	8	Electrical connector
4	Electrical connector	N58/1	Climate control operating unit
5	Electrical connector	N72/1	Upper control panel control unit

Topical note	Information on preventing damage to electronic components due to electrostatic discharge	Â	<a href="#">AH54.00-P-0001-01A</a>
	<b>Remove/install</b>	Â	Â
1	Switch off ignition and store transmitter key outside of transmission range (min. 2 m)	Â	Â
2	Open armrest cover	Â	Â

3	Remove stowage box cover (2)	 There are two screws under the stop buffers.	Â
4	Remove screws (3) at center console cover (1)	Â	Â
5	Lift center console cover (1) at rear and move out of instrument panel at top front until electrical connectors (4, 5) can be accessed	 Cover center console and instrument panel with a cloth. Center console and instrument panel may otherwise be damaged.	Â
6	Disconnect electrical connector (4) from air conditioning operating unit (N58/1)	Â	Â
7	Disconnect electrical connector (5) at upper control panel control unit (N72/1)	Â	Â
8	Disconnect electrical connectors (6, 7, 8)	 The number can vary according to the equipment.	Â
9	Remove cover on center console (1)	Â	Â
10	Install in the reverse order	Â	Â

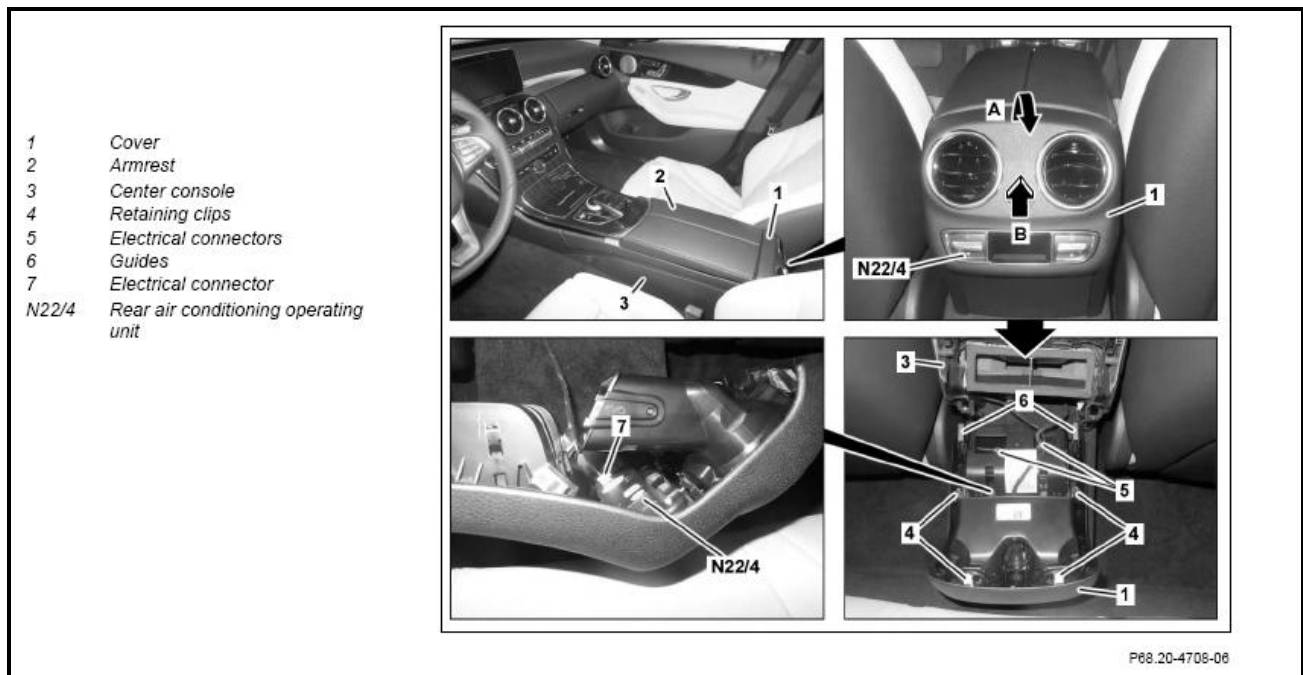
**REMOVE/INSTALL REAR COVER ON CENTER CONSOLE - AR68.20-P-2358FR**

**Model 257**

**Model 290**

**except code 224 (Individual rear seats)**

**Shown on model 257 with code 581 (Automatic air conditioning)**



**Shown on model 257**

- 8 Stowage compartment
- 9 Screw



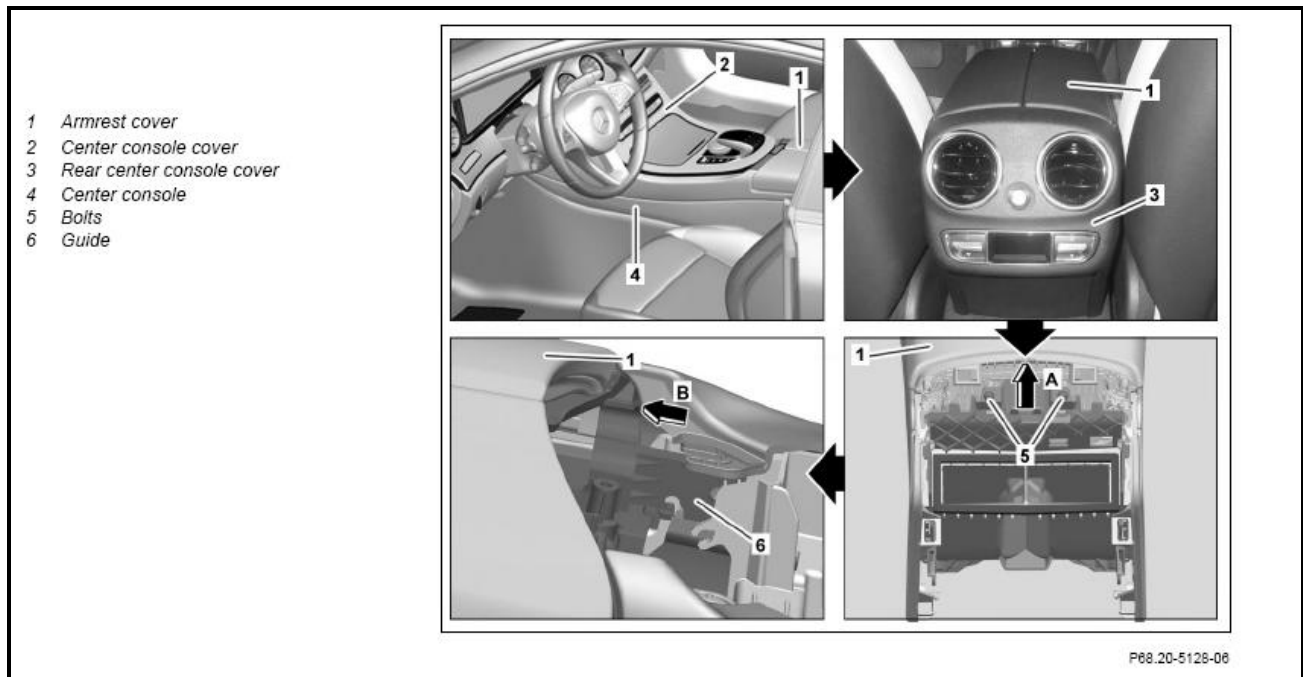
P68.20-5014-02

<b>Danger!</b>	<b>Risk of death</b> when working on component parts and systems with $U \geq 30$ V alternating voltage (AC) or $U \geq 60$ V direct voltage (DC)	Do not touch damaged or defective live component parts and lines or non-insulated electrical connections and lines.	<a href="#">AS00.00-Z-0035-01A</a>
Notice	Information on preventing damage to electronic components due to electrostatic discharge	Â	<a href="#">AH54.00-P-0001-01A</a>
	<b>Remove/install</b>	Â	Â
1.1	Switch off ignition and store transmitter key outside of transmission range (min. 2 m).	Model 257 except code U67 (230 V socket in rear passenger compartment) except code U80 (115 V socket) Model 290 except code 224 (Individual rear seats) except code U67 (230 V socket in rear passenger compartment) except code U80 (115 V socket)	Â
1.2	Disconnect ground line from battery.	Model 257 with code U67 (230 V socket in rear passenger compartment) Model 257 with code U80 (115 V socket) Model 290 with code U67 (230 V socket in rear passenger compartment) except code 224 (Individual rear seats) Model 290 with code U80 (115 V socket) except code 224 (Individual rear seats)	<a href="#">AR54.10-P-0003FR</a>
2	Open armrest (2) covers.	Â	Â
3	Place cover in stowage compartment (8) of center console (3) to one side and remove screw (9).	Model 257	Â
4	Unclip cover (1) at top at center console (3) in direction of arrow (A).	<b>Installation</b> Ensure that	Â

		retaining clips (4) arrest securely.	
5	Move cover (1) rearwards and upwards out of center console (3) in direction of arrow (B) at an angle of approx. 450.	<b>i</b> <b>Installation</b> Insert cover (1) with guides (6) into center console (3).	Â
6	Disconnect electrical connectors (5).	<b>i</b> The number can vary according to the equipment.	Â
7	Disconnect electrical connector (7) at rear climate control operating unit (N22/4).	Model 257 with code 581 (Automatic climate control) Model 290 with code 581 (Automatic climate control) except code 224 (Individual rear seats)	Â
8	Install in the reverse order.	Â	Â

**REMOVE/INSTALL ARMREST LID ON CENTER CONSOLE - AR68.20-P-2370FR**

**Model 257**



	<b>Remove/install</b>	Â	Â
1	Remove center console cover (2)	Â	<a href="#">AR68.20-P-2350FR</a>
2	Open armrest cover (1)	Â	Â
3	Remove rear center console covering (3)	Â	<a href="#">AR68.20-P-2358FR</a>
4	Disconnect light-emitting diode from fiber-optic cable at armrest cover (1)	Model 257 with code 891 (Premium	Â



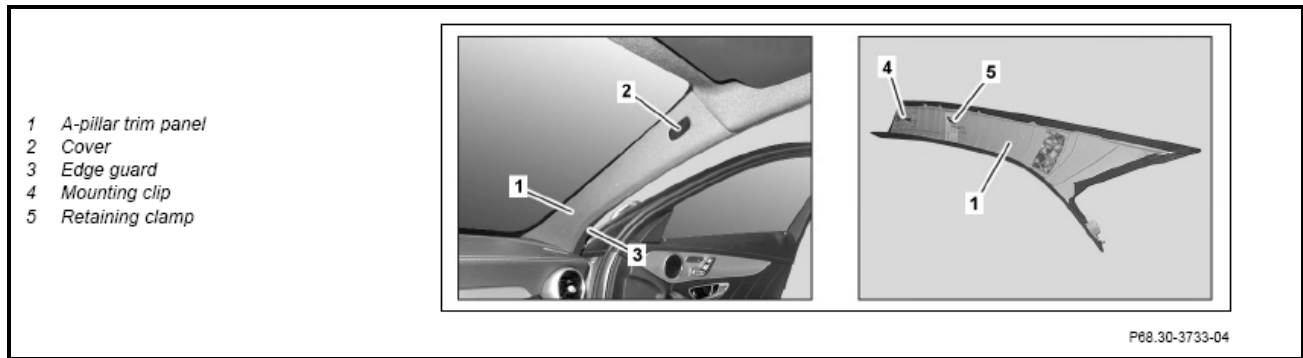
		ambiance illumination)	
5	Remove bolts (5)	Â	Â
6	Lift armrest cover (1) at rear (arrow A) and remove from center console (4) towards rear using guides (6) (arrow B)	Â	Â
7	Install in the reverse order	Â	Â

**REMOVE/INSTALL PANELING ON A-PILLAR - AR68.30-P-4050FR**

**Model 257**

**Model 290**

**Shown on model 257**



Â	Notes on safety-relevant components	Â	<a href="#">AH00.00-Z-0019-01A</a>
	<b>Remove/install</b>	Â	Â
1	Unclip cover (2).	Long wedge	<a href="#">Fig. 10</a>
2	Detach edge guard (3) in area of A-pillar paneling (1).	<b>Installation</b> Ensure that edge guard (3) is seated correctly.	Â
3	Unclip A-pillar trim (1) from retaining clip (4) and retaining clamp (5) and pivot slightly inwards at the top.	Long wedge	<a href="#">Fig. 10</a>
4	Pull A-pillar paneling (1) towards rear and up out of instrument panel, and remove.	Â	Â
5	Install in the reverse order.	Â	Â

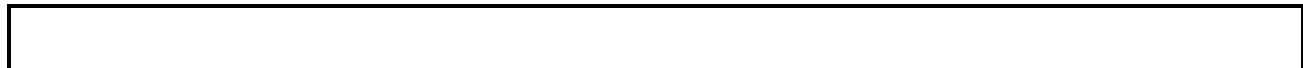
**[Fig. 10: Identifying Long Wedge \(115 589 03 59 00\)](#)**

Courtesy of MERCEDES-BENZ USA

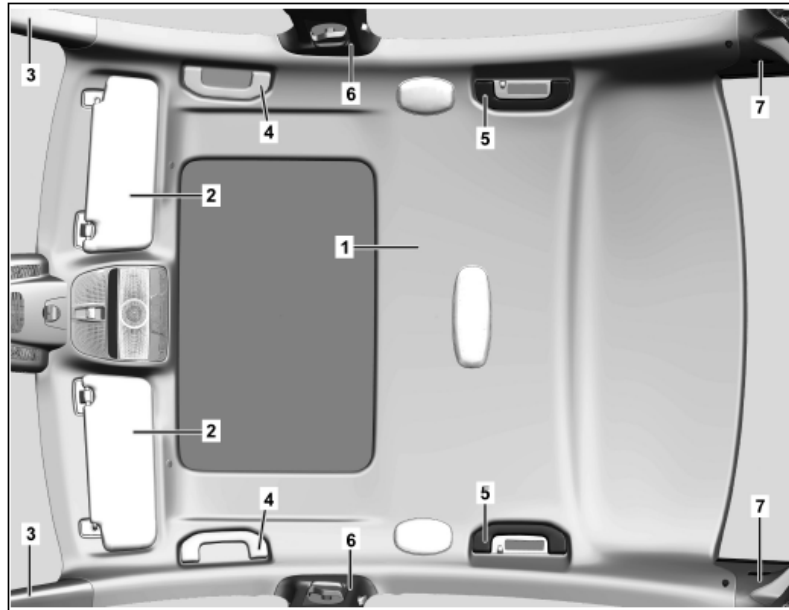
**REMOVE/INSTALL HEADLINER - AR68.30-P-4300FR**

**Model 257**

**Shown on model 257 with code 811 (Advanced Sound System) and with code 414 (Sliding sunroof)**



- 1 Headliner
- 2 Sun visor
- 3 A-pillar trim panel
- 4 Front grab handle
- 5 Rear grab of handle
- 6 Upper B-pillar paneling
- 7 C-pillar paneling



P68.30-4030-06

Shown on model 257 with code 811 (Advanced Sound System)

- 1 Headliner
- 8 Electrical connector

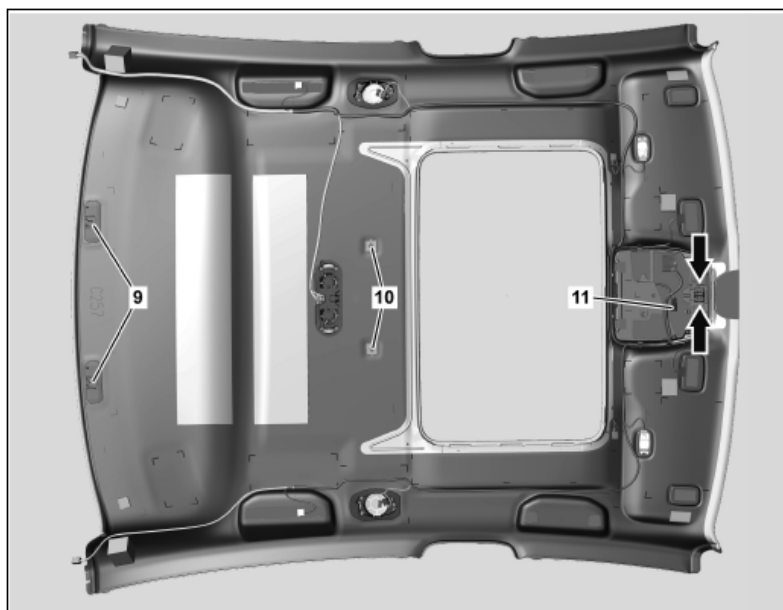


P68.30-4031-11



Shown on model 257 with code 811 (Advanced Sound System) and with code 414 (Sliding sunroof)








- 9 Guide hook
- 10 Bracket
- 11 Electrical connector



P88.30-4032-06

 	Remove/install	Â	Â
1	Remove windshield	Â	<a href="#">AR67.10-P-1700FR</a>
2	Completely open sliding roof lining on sliding roof	Model 257 with code 414 (Sliding sunroof)	Â
3	Completely open roller sun blind on rear window	Model 257 with code 540 (Electric sunblind for rear window)	Â
4	Remove inside rearview mirror	Â	<a href="#">AR68.40-P-0001FR</a>
5	Remove sun visors (2)	Â	<a href="#">AR68.60-P-5480FR</a>
6	Remove front grab handle (4) and rear grab handle (5)	Â	<a href="#">AR68.30-P-4330FR</a>
7	Remove upper B-pillar paneling (6)	Â	<a href="#">AR68.30-P-4700FR</a>
8	Remove C-pillar paneling (7) and lay down to side with seat belt installed	Â	<a href="#">AR68.30-P-4490FR</a>
9	Disconnect electrical connector (8)	Model 257 with code 811 (Advanced sound system)	Â
10	Slightly fold back foam material and disconnect electrical connector (11)	Â	Â
11	Remove edge guard from body flange in area of roof lining (1)	Â	Â
12	Press catch hooks (arrows) together and unclip headliner	Â	Â

	(1) from front roof frame		
13	Loosen headliner (1) on left and right on sliding roof frame	Model 257 with code 414 (Sliding sunroof)  Long wedge	<a href="#">Fig. 11</a>
14	Detach roof lining (1) from roof bow at brackets (10)	 Helper required.	Â
15	Push roof lining (1) toward rear until guide hooks (9) are unhooked from rear roof frame and place roof lining (1) down in vehicle	 Helper required.	Â
16	Remove roof lining (1) from vehicle through window cutout in windshield	 Do not bend headliner (1) excessively. Otherwise the headliner (1) can kink and be damaged.  Helper required.	Â
17	Make sure that all of the soundproofing on the headliner (1) is properly attached and in good condition.	Model 257 with code 460 (Canada version) Model 257 with code 494 (US version) If the headliner (1) is reused. If a problem arises ↓ Replace the affected soundproofing on the headliner (1).	Â
18	Prepare new headliner (1) for installation	When replacing roof paneling (1). Adhesive tape roll, non-woven Tesa tape, 50 meters, 50 mm wide	<a href="#">AR68.30-P-4305-16FR</a>  <a href="#">*BR00.45-Z-1144-02A</a>
19	Install in the reverse order	Â	Â

**Fig. 11: Identifying Long Wedge (115 589 03 59 00)**

Courtesy of MERCEDES-BENZ USA

**REPAIR MATERIALS**

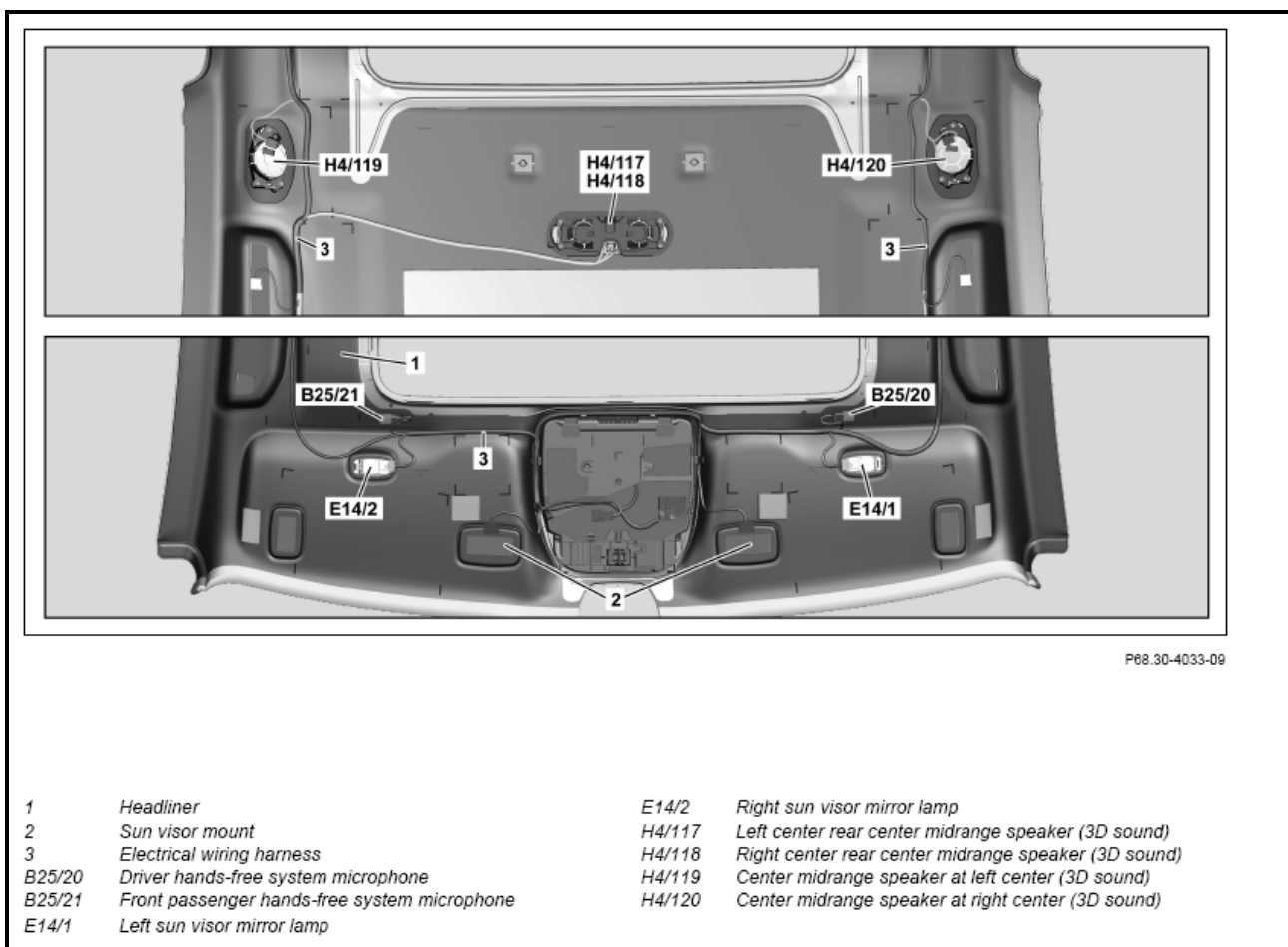
Number	Designation	Order number
BR00.45-Z-1144-02A	Adhesive tape roll, non-woven Tesa tape, 50 meters, 50 mm wide	A 008 989 50 85 09

**PREPARE HEADLINER FOR INSTALLATION - AR68.30-P-4305-16FR**

Model 257

**REPAIR MATERIALS**

Number	Designation	Order number
--------	-------------	--------------



### Shown on model 257 with code 414 (Sliding sunroof) and with code 811 (Advanced Sound-System)

1. Remove sun visor bracket (2) from old roof lining (1).

**i** Do not separate the electrical connectors.

2. Disconnect electrical connectors and remove sun visor mirror lamp (E14/1, E14/2) from old roof lining (1).
3. Disconnect electrical connectors and remove microphone for hands-free system (B25/20, B25/21) from old roof lining (1).
4. Model 257

with code 811 (Advanced sound system)

Disconnect electrical connectors and remove rear center mid-range speaker (3D sound) (H4/117, H4/118) from old roof lining (1).

5. Model 257

with code 811 (Advanced sound system)

Disconnect electrical connectors and remove center mid-range speaker (3D sound) (H4/119, H4/120) from old roof lining (1).

6. Expose electrical wiring harness (3) on old roof lining (1) and remove.

**i** **Installation** Fasten electrical wiring harness (3) with adhesive tape.

**i** Observe routing of lines.

7. Install detachable parts on new headliner (1) in reverse order.

8. Model 257

with code 460 (Canada version)

Model 257

with code 494 (US version)

Install new dampings on new roof lining (1).

**i** Take over the installation locations and number of dampings from old roof lining (1).

**CHECK GRAB HANDLE ON ROOF - AR68.30-P-4330-01FR**

**Model 167.1/9**

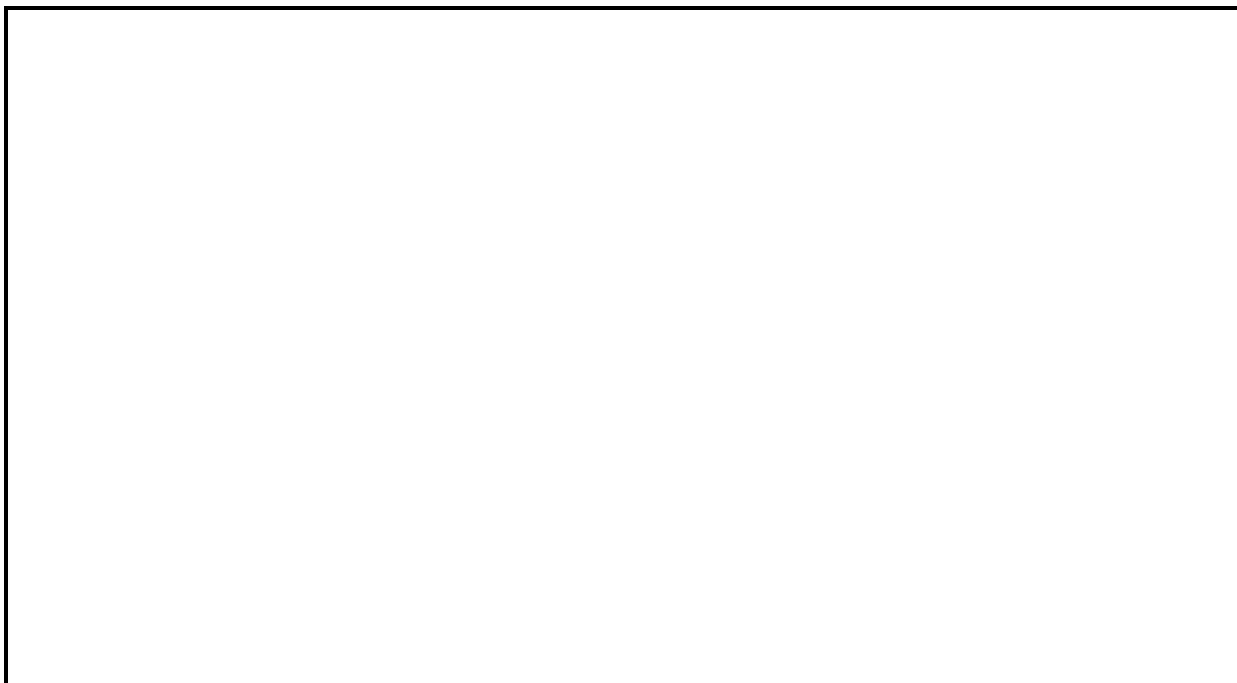
**Model 206, 254**

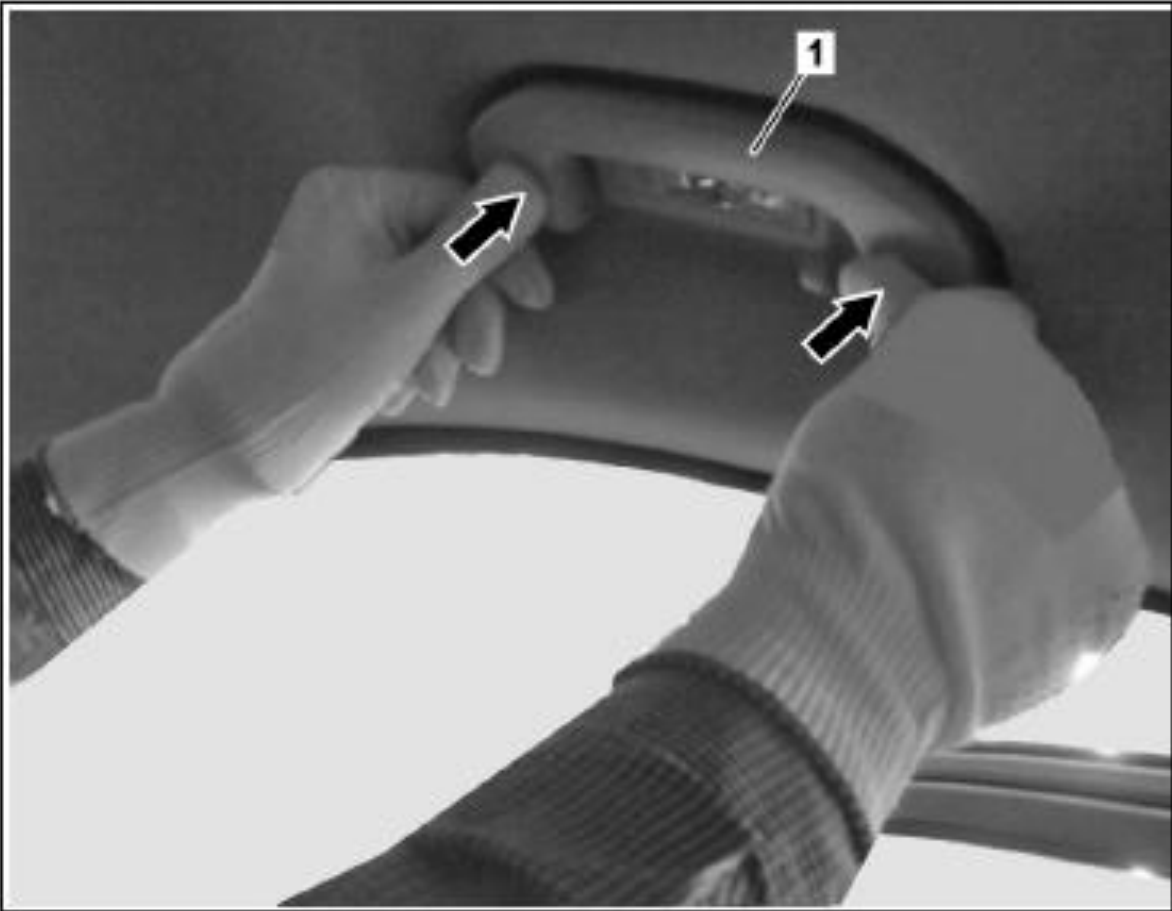
**Model 223**

**Model 257**

<b>Â</b> Notes on safety-relevant components	<b>Â</b> <a href="#">AH00.00-Z-0019-01A</a>
----------------------------------------------	---------------------------------------------

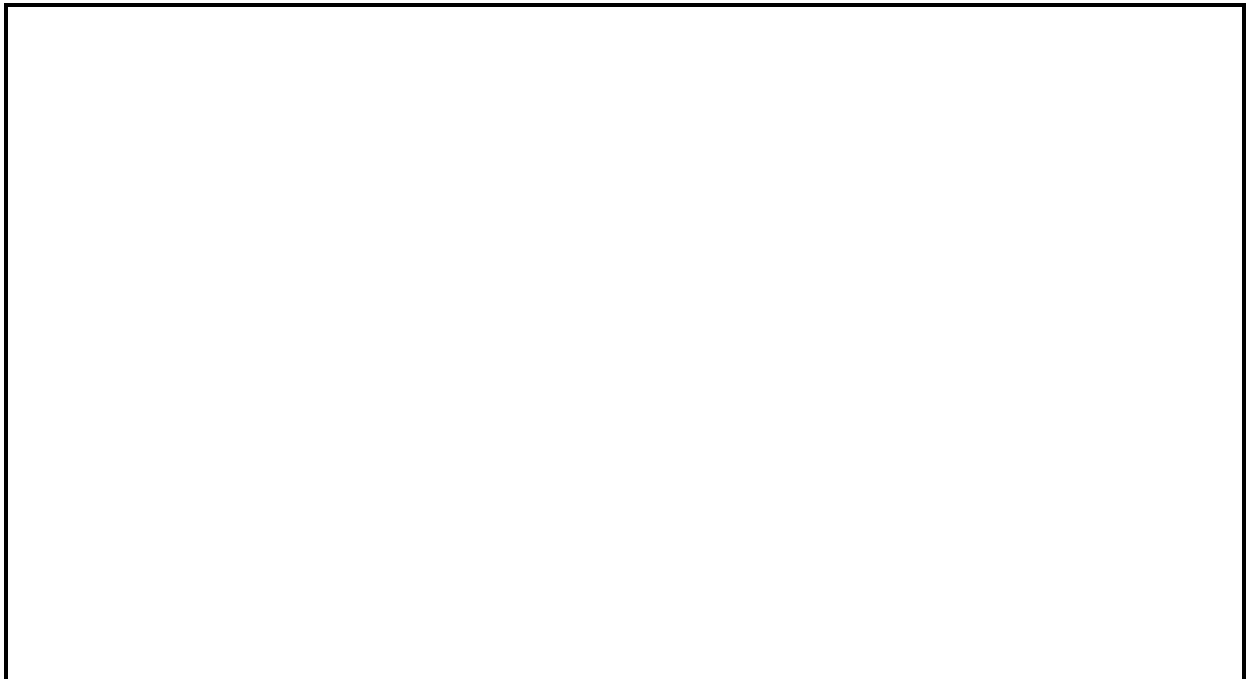
1. Push grab handle (1) to joining direction at clips with both hands (arrows).

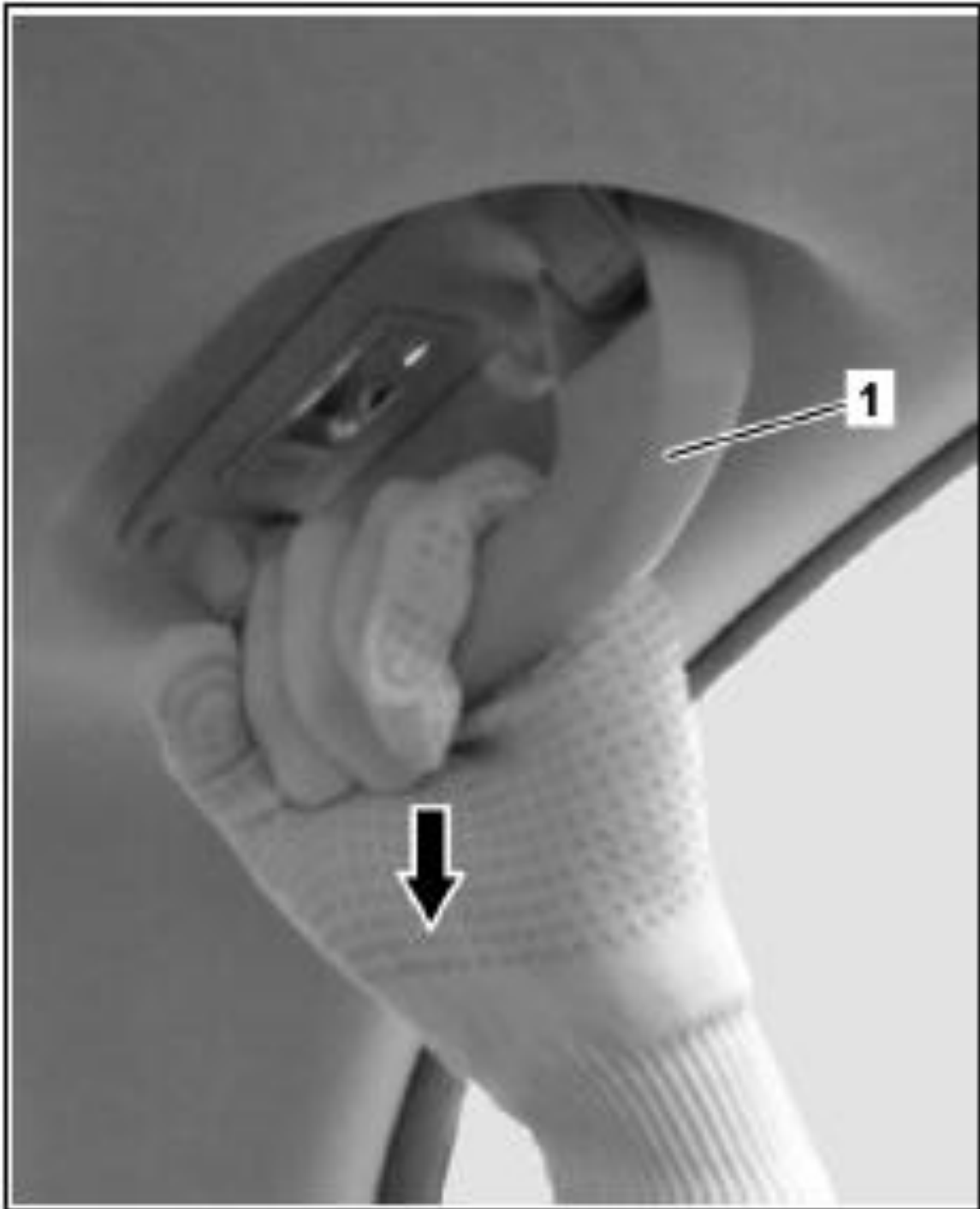




P68.30-3915-11

2. Completely fold out grab handle (1), pull downward and check whether it is seated tightly at both mounting points.





P68.30-3918-02

3. Push grab handle (1) to joining direction at clips with both hands (arrows).



It must be ensured that the grab handle (1) is seated tightly.

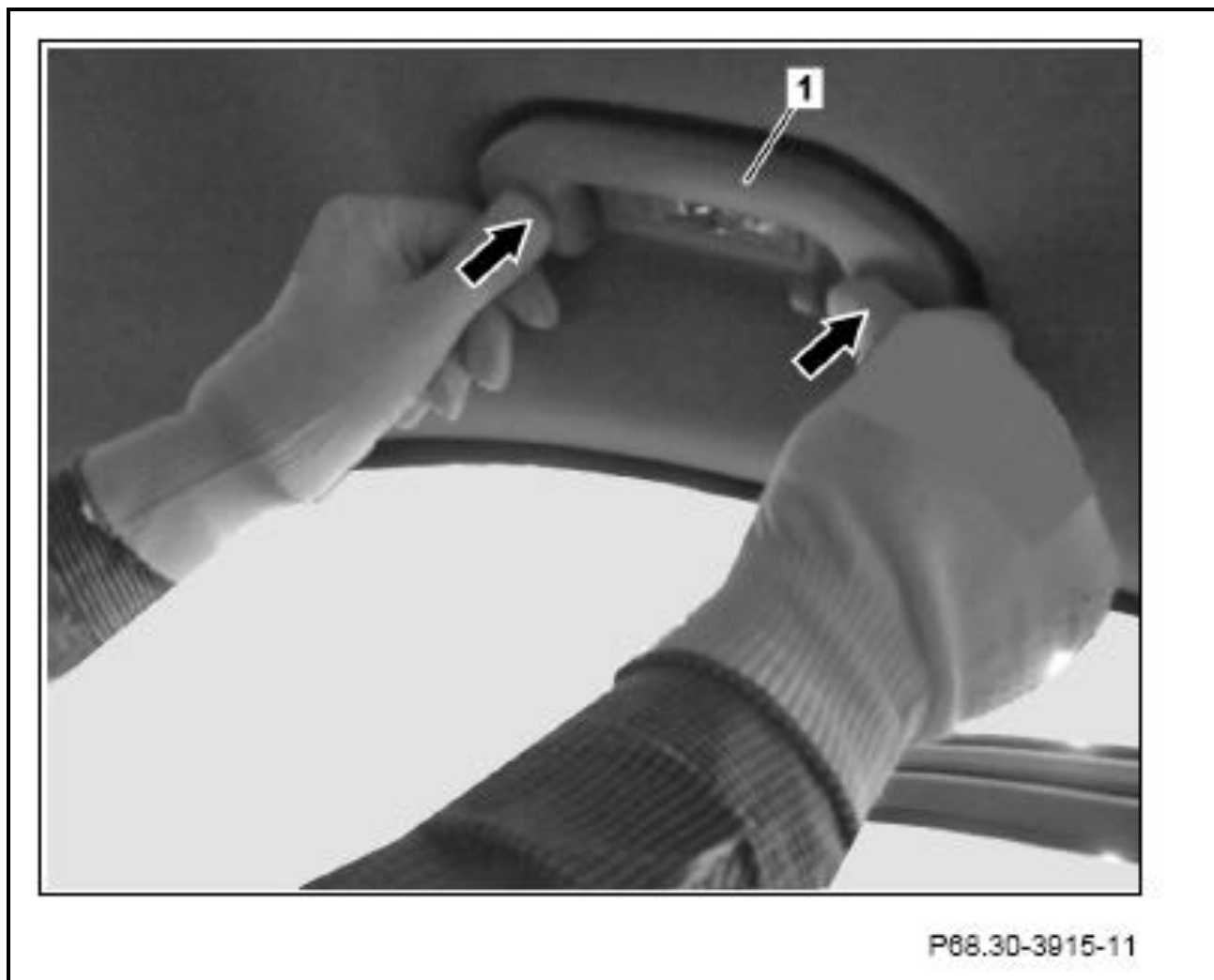


A clip not engaged can pose an injury risks when entering or exiting the vehicle.

If a clip has become loose during the tensile test,

↓

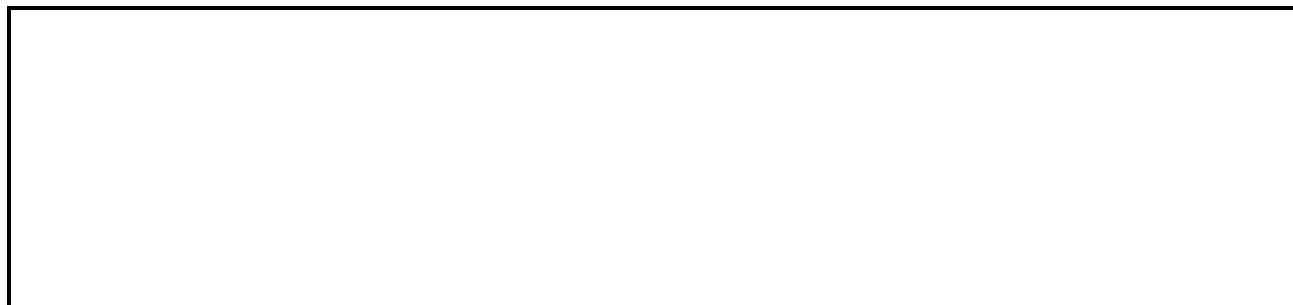
Check clip, if necessary replace and repeat test.



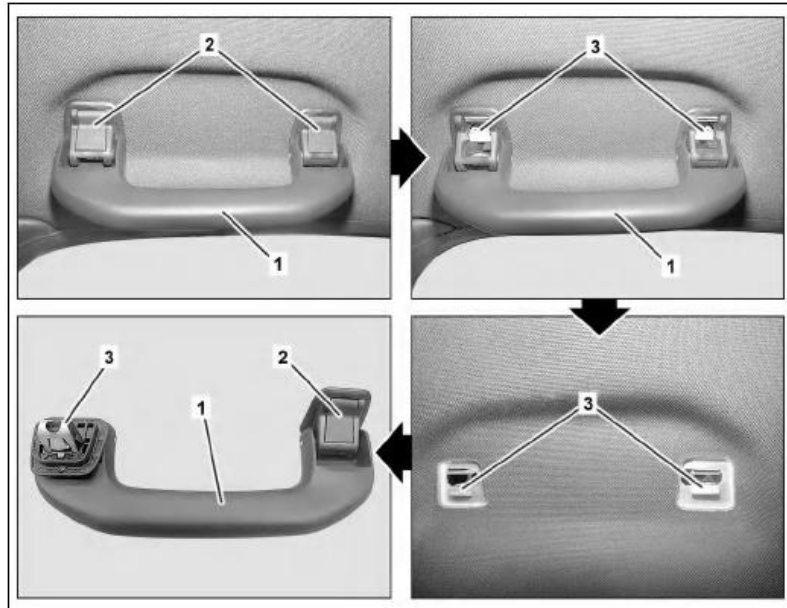
**REMOVE/INSTALL HANDLE ON ROOF - AR68.30-P-4330FR**

**Model 257**

**Shown on front grab handle (1)**



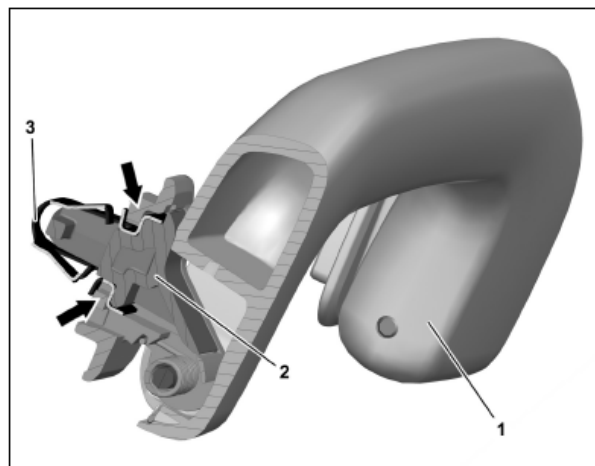
- 1 Grab handle
- 2 Covers
- 3 Clips






P68.30-3598-06


**Shown on front grab handle (1)**

- 1 Grab handle
- 2 Cover
- 3 Clip



P68.30-4022-11

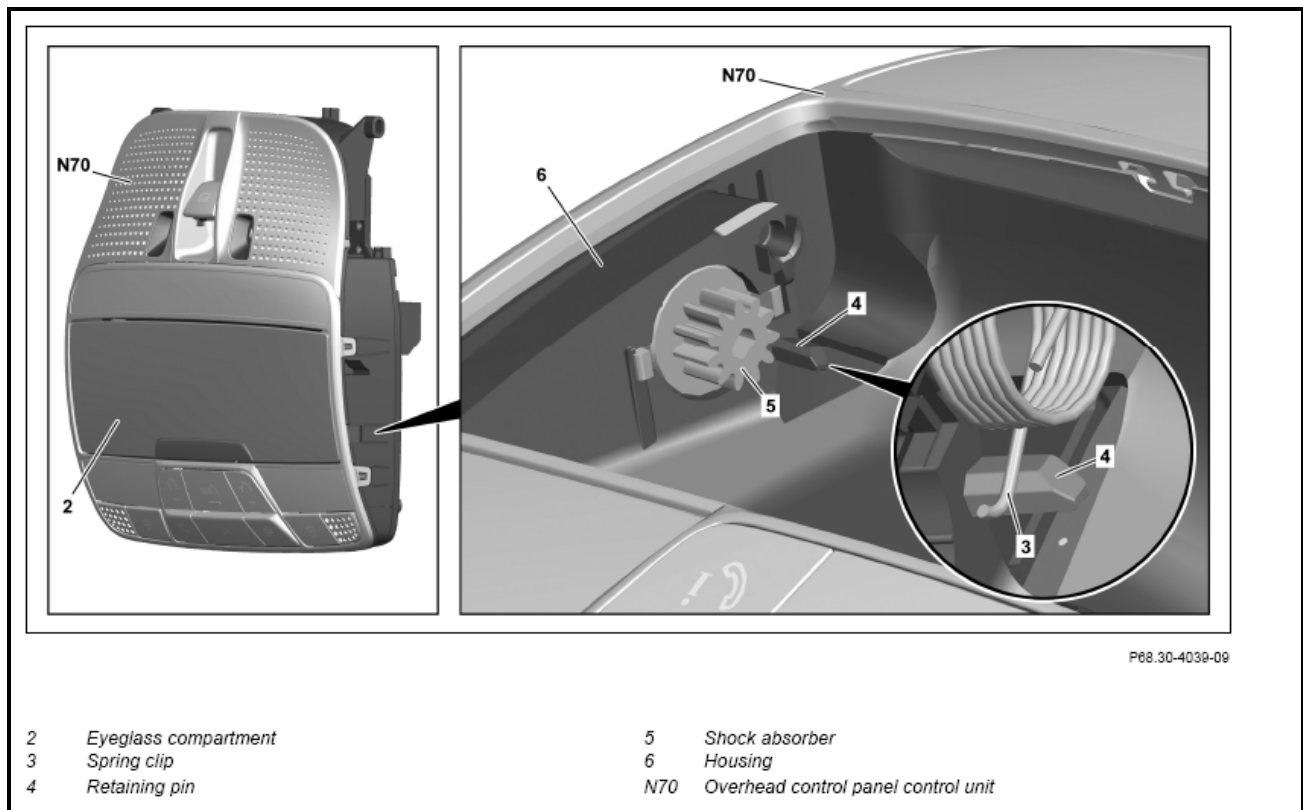
	<b>Remove</b>	Â	Â
1	Remove covers (2)	Â	Â
2	Press clips (3) together and remove grab handle (1)	Â	Â
3	Release and disconnect electrical connector of rear illumination at grab handle (1)	Only at rear grab handle (1).	Â
4	Remove clips (3) from body	Â	Â
	<b>Install</b>	Â	Â
5	Clip clips (3) and covers (2) into grab handle (1)	 Ensure that clips (3) fully engage in grab handle (1) (arrows).	Â
6	Connect electrical connector of rear illumination at grab handle (1)	Only at rear grab handle (1).	Â


7	Clip grab handle (1) into roof	Â	Â
	<b>Check</b>	Â	Â
8	Check that grab handle (1) is correctly seated on roof	Â	<a href="#">AR68.30-P-4330-01FR</a>








**REMOVE/INSTALL EYEGLASS COMPARTMENT ON ROOF - AR68.30-P-4400FR**

**Model 257, 290**

**except code 811 (High-End sound system)**



Topical note	Information on preventing damage to electronic components due to electrostatic discharge	Â	<a href="#">AH54.00-P-0001-01A</a>
	<b>Remove</b>	Â	Â
1	Remove overhead control panel control unit (N70).	Â	<a href="#">AR82.20-P-1000FR</a>
2	Open glasses compartment (2).	Â	Â
3	Remove rubber mat from the glasses compartment (2).	Â	Â
4	Press glasses compartment (2) in the direction of the damper (5) and unclip on the opposite side from the bearing.	Â	Â
5	Unclip glasses compartment (2) at the side of the damper (5) from the bearing and remove.	Â	Â

6	Unclip damper (5) and remove from housing (6).	Â	Â
	<b>Check</b>	Â	Â
7	Check gearwheel of the damper (5) and gearing on the glasses compartment (2) for damage and wear.	If there is a problem, ↓ replace corresponding component part.	Â
8	Check that left and right spring U-bolts (3) are seated correctly in the glasses compartment (2).	 Spring clips (3) must be fully seated on spindles of glasses compartment (2). If there is a problem, ↓ correct position of relevant spring clip (3).	Â
	<b>Install</b>	Â	Â
9	Insert glasses compartment (2) on the opposite side of the damper (5) in the bearing.	Â	Â
10	Align glasses compartment (2) vertically.	 Spring clips (3) must, as shown, be seated in front of retaining pins (4).	Â
11	Slightly bend glasses compartment (2) and insert into the bearing on the side of the damper (5).	Â	Â
12	Insert damper (5) in housing (6) and clip in.	 Do not insert damper (5) at an angle. Both engagements of damper (5) must engage almost simultaneously.	Â
13	Insert rubber mat in the glasses compartment (2).	Â	Â
14	Close glasses compartment (2).	Â	Â
15	Install overhead control panel control unit (N70).	Â	<a href="#">AR82.20-P-1000FR</a>
	<b>Check</b>	Â	Â
16	Check glasses compartment (2) for proper operation by opening and closing.	 Perform test procedure at least three times.	Â



**REMOVE/INSTALL TRIM AT C-PILLAR - AR68.30-P-4490FR**









Model 257

Shown on model 257 with code 540 (Electric roller sunblind for rear window)

**Fig. 12: C-Pillar Trim Component Location - Model 257 (Shown With Code 540)**

Courtesy of MERCEDES-BENZ USA

	<b>Remove/install</b>	Â	Â
1	Remove rear passenger compartment side trim panel	Â	<a href="#">AR68.30-P-4780FR</a>
2	Remove belt end fitting	 Bolt, rear belt end fitting	<a href="#">*BA91.40-P-1005-01U</a>

3	Remove edge guard in area of C-pillar (2)	 <b>Installation</b> Ensure that edge guard is seated correctly.	Â
4	Unclip cover (1)	 Retaining clip remains in C-pillar paneling (2).  Clip remover	<a href="#">Fig. 13</a>
5	Loosen C-pillar paneling (2) on C-pillar and rear side paneling, slightly tilt toward center of vehicle and remove toward front	 Carefully remove C-pillar paneling (2). Otherwise roof paneling can be damaged.  <b>Installation</b> Ensure that C-pillar paneling (2) is seated correctly.  Model 257 with code 540 (Electric sunblind for rear window)  <b>Installation</b> Ensure correct seating of roller sunblind in guide rail (5) on C-pillar trim (2).	Â
6	Remove cover (3) from C-pillar paneling (2)	Â	Â
7	Remove clamp (4)	 <b>Installation</b> Ensure that clip (4) is seated correctly.	Â
8	Guide seatbelt through opening in cove (3) and C-pillar paneling (2)	Â	Â
9	Install in the reverse order	Â	Â

**SEAT BELTS/EMERGENCY TENSIONING RETRACTORS**

Number	Designation	Model 257
BA91.40-P-1005-01U	Bolt, rear belt end fitting	Nm 35

**[Fig. 13: Identifying Clip Remover \(452 589 01 63 00\)](#)**

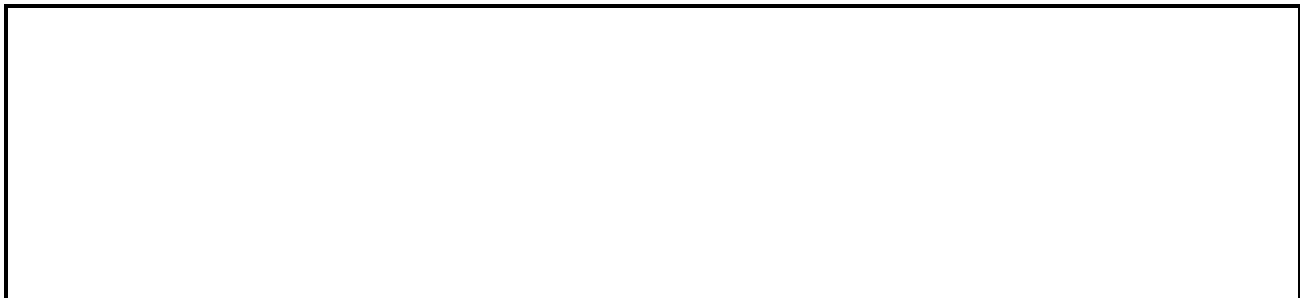
Courtesy of MERCEDES-BENZ USA

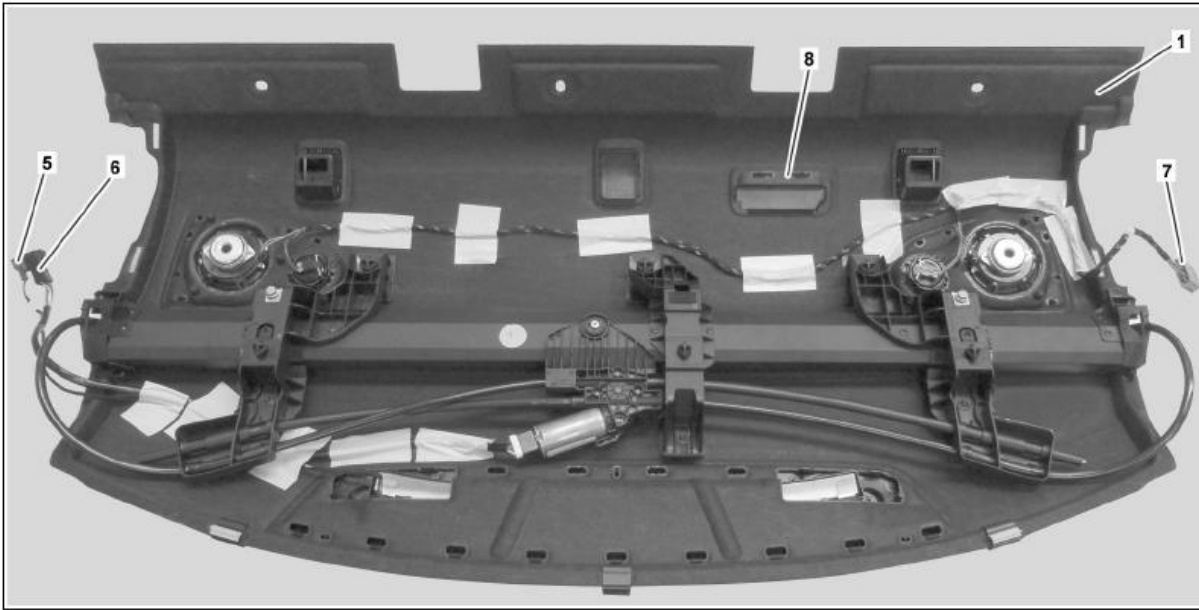
**REMOVE/INSTALL REAR SHELF - AR68.30-P-4581FR**

**Model 257**

**[Fig. 14: Rear Shelf Component Location - Model 257](#)**

Courtesy of MERCEDES-BENZ USA






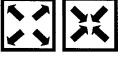











P68.30-4026-09

1 Rear shelf  
5 Electrical connector  
6 Electrical connector

7 Electrical connector  
8 Cover

Shown on model 257 with code 811 (Advanced Sound System) and with code 540 (Electric roller sunblind for rear window)

 <b>WARNING!</b>	<b>Risk of injury</b> caused by fingers being jammed or pinched when removing, installing or aligning hoods, doors, trunk lid/rear-end door or sliding roof.	No parts of the body or limbs should be within the operating area when the components are moving.	<a href="#">AS00.00-Z-0011-01A</a>
	Notes on HANDS-FREE ACCESS		<a href="#">AH80.61-P-0001-01A</a>
	<b>Remove/install</b>		
1	Remove both C-pillar trims and guide out of working area along seat belts	 Do not remove belt end fittings.	<a href="#">AR68.30-P-4490FR</a>
2.1	Fold over folding seat backrests	Model 257 with code 287 (Folding seat backrests in rear passenger compartment)	
2.2	Remove backrest in rear	Model 257 except code 287 (Folding seat backrests in rear passenger compartment)	<a href="#">AR91.12-P-1713FR</a>
		Model 257 except code 287 (Folding seat backrests in rear passenger	

3	Remove anchor fitting of center seat belt	compartment)  <b>Installation</b> Ensure bulb is correctly installed.  Bolt, rear belt end fitting	<a href="#">*BA91.40-P-1005-01U</a>
4	Remove spacers (2)	 Clip remover	<a href="#">Fig. 15</a>
5	Loosen screws/bolts (3)	Â	Â
6	Release catches (4) on rear shelf (1) and push rear shelf (1) slightly toward front	 <b>Installation</b> Ensure correct seating of arrests (4).	Â
7	Disconnect electrical connection (5)	Â	Â
8	Disconnect electrical connector (6)	Model 257 with code 540 (Electric sunblind for rear window)	Â
9	Disconnect electrical connector (7)	Model 257 with code 810 (Sound system) Model 257 with code 811 (Advanced sound system)	Â
10	Lift rear shelf (1) and guide center seat belt with anchor fitting through cover (8) of center seat belt guide	Model 257 except code 287 (Folding seat backrests in rear passenger compartment)	Â
11	Remove rear shelf (1) from vehicle	 Helper required.	Â
12	Install in the reverse order	Â	Â

#### SEAT BELTS/EMERGENCY TENSIONING RETRACTORS

Number	Designation	Model 257
BA91.40-P-1005-01U	Bolt, rear belt end fitting Nm	35

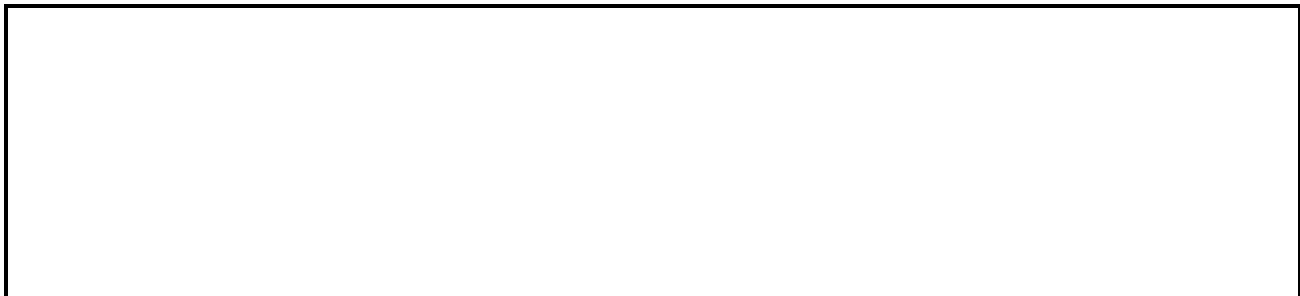
[Fig. 15: Identifying Clip Remover \(452 589 01 63 00\)](#)

Courtesy of MERCEDES-BENZ USA

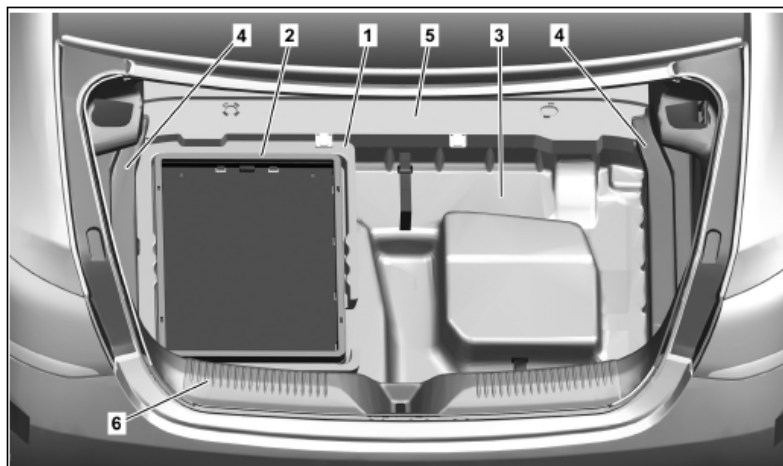
#### REMOVE/INSTALL SPARE TIRE WELL PANEL - AR68.30-P-4620FR

Model 257

Shown on model 257 with code 287 (Folding seat backrests in rear) and with code B01 (48V technology) and with code 30P (Stowage Space Package)



- 1 Support
- 2 Stowage box
- 3 Spare tire well paneling
- 4 Side trunk paneling
- 5 Trunk floor front section
- 6 Rear center section paneling



P68.30-4013-05

	<b>WARNING!</b> Risk of injury caused by fingers being jammed or pinched when removing, installing or aligning hoods, doors, trunk lid/rear-end door or sliding roof.	No parts of the body or limbs should be within the operating area when the components are moving.	<a href="#">AS00.00-Z-0011-01A</a>
Â	Notes on HANDS-FREE ACCESS	Â	<a href="#">AH80.61-P-0001-01A</a>
	<b>Remove/install</b>	Â	Â
1	Remove rear center assembly paneling	Â	<a href="#">AR68.30-P-4786FR</a>
2	Fold up trunk floor and fix in place	Â	Â
3	Remove support (1) with stowage box (2)	Model 257 with code 30P (Stowage Space package)	Â
4	Remove retaining clips from side trims in trunk (4)	Â	Â
5	Guide spare wheel well trim (3) out from under side trims in trunk (4) and trunk floor front section (5) and remove	Â	Â
6	Install in the reverse order	Â	Â

**REMOVE/INSTALL PANELING ON B-PILLAR - AR68.30-P-4700FR**

Model 257

Model 290






**Fig. 16: B-Pillar Trim Component Location - Model 257**

Courtesy of MERCEDES-BENZ USA

Shown on model 257

Â	Notes on safety-relevant components	Â	<a href="#">AH00.00-Z-0019-01A</a>
	<b>Remove/install</b>	Â	Â



			
1	Move front seat toward the front to end position.	Â	Â
2	Remove front and rear door sills.	Â	Â
3	Remove outer trim from seat frame.	Â	<a href="#">AR91.10-P-1201FR</a>
4	Remove seat belt end fitting.	Model 257, 290 with code 460 (Canada version) Model 257, 290 with code 494 (US version) Model 257, 290 except code 460 (Canada version) except code 494 (US version)	<a href="#">AR91.40-P-1030-02FRA</a>  <a href="#">AR91.40-P-1030-02FR</a>
5	Detach edge guard in area of upper B-pillar trim (1) and in area of lower B-pillar trim (2).	 <b>Installation</b> Ensure that edge guard is seated correctly.	Â
6	Unclip upper B-pillar trim (1) at retaining tabs (arrows), guide out in downward direction, and remove from seat belt.	 <b>Installation</b> Position support (3) of upper B-pillar trim (1) on screw at seat belt guide bracket.  Long wedge	<a href="#">Fig. 17</a>
7	Unclip lower B-pillar trim (2) and remove.	 Long wedge	<a href="#">Fig. 17</a>
8	Install in the reverse order.	Â	Â

**[Fig. 17: Identifying Long Wedge \(115 589 03 59 00\)](#)**

Courtesy of MERCEDES-BENZ USA

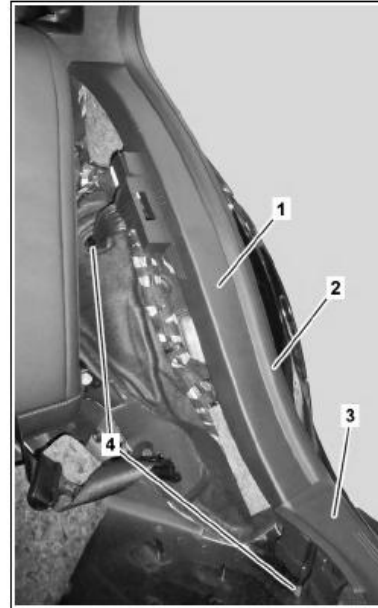
**REMOVE/INSTALL SIDE PANELING IN REAR - AR68.30-P-4780FR**

Model 257, 290

**MODIFICATION NOTES**

08.10.2019	Document revised completely.	Â	Â
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- 1 Side paneling
- 2 Edge guard
- 3 Door sill
- 4 Nuts



P68.30-4023-03

Shown on model 257

	Remove	Â	Â
1.1	Remove seat backrest.	Model 257 except code 287 (Folding seat backrests in rear passenger compartment) Model 290 except code 224 (Rear individual seat design) except code 287 (Folding seat backrests in rear passenger compartment)	<a href="#">AR91.12-P-1713FR</a>
1.2	Remove seat side bolster.	Model 257, 290 with code 287 (Folding seat backrests in rear passenger compartment) Model 290 with code 224 (Rear individual seat design) Model 290 with code 287 (Folding seat backrests in rear passenger compartment) Model 257 with code 287 (Folding seat backrests in rear passenger compartment)	Â  AR91.12-P-1711FRX  <a href="#">AR91.12-P-1711FR</a>
2	Remove door sill (3).	Clip remover	<a href="#">Fig. 18</a>
3	Release edge guard (2) in the area of the side trim (1).	Â	Â
4	Remove nuts (4).	Â	Â
5	Unclip side trim (1) from the side wall.	Clip remover	<a href="#">Fig. 18</a>
6	Guide side trim (1) out of the C-pillar trim and remove.	Â	Â

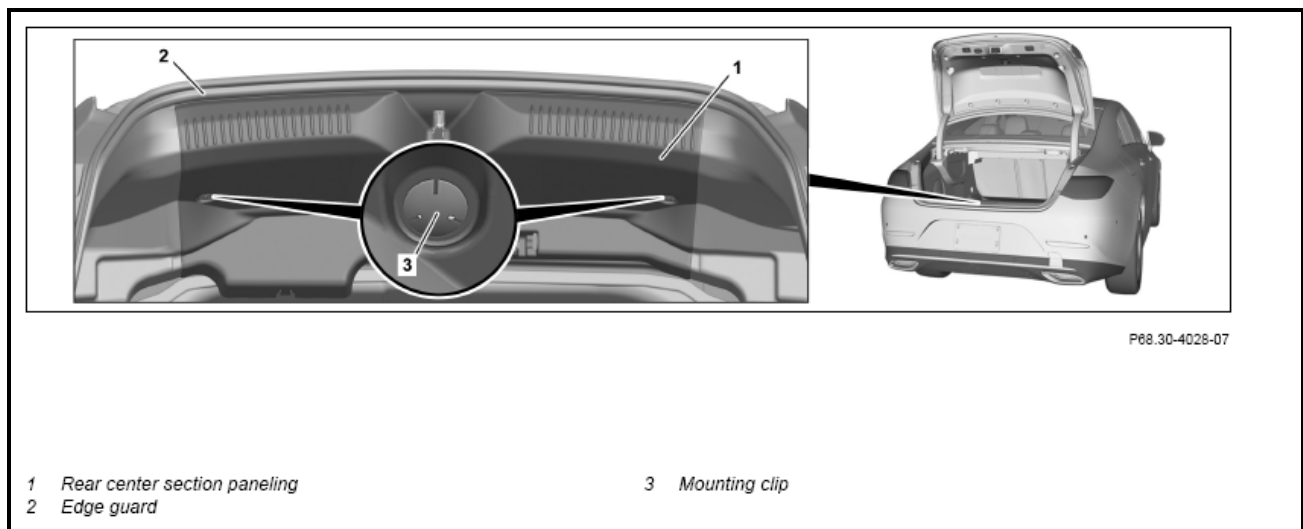
✖	Install	Â	Â
7	Install seat belt tongue bracket.	Model 290 with code 287 (Folding seat backrests in rear passenger compartment)	AR68.30-P-4780-03FR
8	Insert side trim (1) into the C-pillar trim and install.	Â	Â
9	Clip side trim (1) into the side wall.	Â	Â
10	Attach nuts (4).	Â	Â
11	Install edge guard (2) in the area of the side trim (1).	i Ensure that edge guard (2) is seated correctly.	Â
12	Install door sill (3).	Â	Â
13.1	Install seat backrest.	Model 257 except code 287 (Folding seat backrests in rear passenger compartment) Model 290 except code 224 (Rear individual seat design) except code 287 (Folding seat backrests in rear passenger compartment)	<a href="#">AR91.12-P-1713FR</a>
13.2	Install seat side bolster.	Model 257, 290 with code 287 (Folding seat backrests in rear passenger compartment) Model 290 with code 287 (Folding seat backrests in rear passenger compartment) Model 257 with code 287 (Folding seat backrests in rear passenger compartment)	Â AR91.12-P-1711FRX <a href="#">AR91.12-P-1711FR</a>

**Fig. 18: Identifying Clip Remover (452 589 01 63 00)**

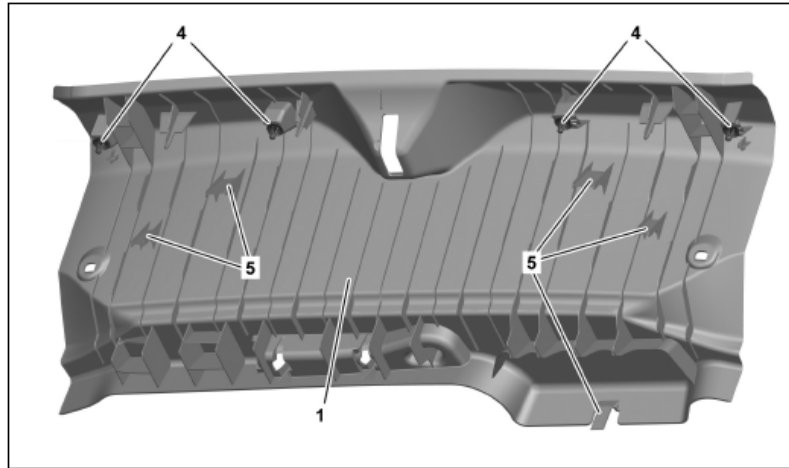
Courtesy of MERCEDES-BENZ USA

**REMOVE/INSTALL REAR CENTER SECTION COVER - AR68.30-P-4786FR**

**Model 257**



- 1 Rear center section paneling
- 4 Retaining clips
- 5 Retaining tabs



P68.30-4029-05

	<b>WARNING!</b> Risk of injury caused by fingers being jammed or pinched when removing, installing or aligning hoods, doors, trunk lid/rear-end door or sliding roof.	No parts of the body or limbs should be within the operating area when the components are moving.	<a href="#">AS00.00-Z-0011-01A</a>
Â	Notes on HANDS-FREE ACCESS	Â	<a href="#">AH80.61-P-0001-01A</a>
	<b>Remove/install</b>	Â	Â
1	Open trunk lid	Â	Â
2	Detach edge guard (2) in area of rear-end center-section trim (1)	Â	Â
3	Remove mounting clips (3)	Clip remover	<a href="#">Fig. 19</a>
4	Lift trunk floor	Â	Â
5	Unclip rear center section paneling (1) from mounting clips (4)	Â	Â
6	Remove rear center section (1) upward	<b>Installation</b> Insert rear center section paneling (1) into body with retaining tabs (5).	Â
7	Install in the reverse order	Â	Â

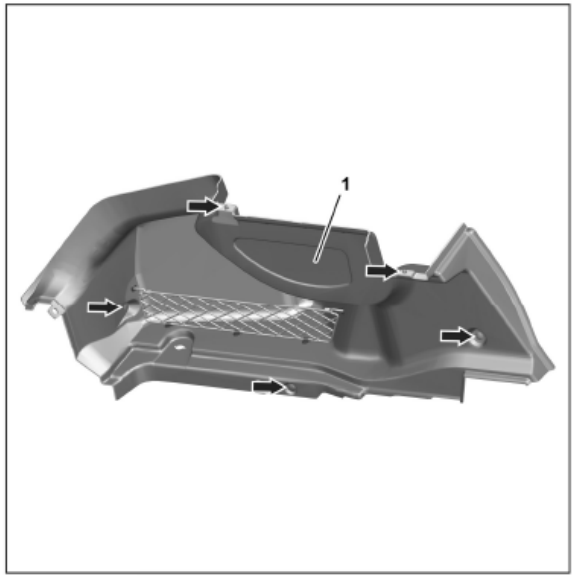
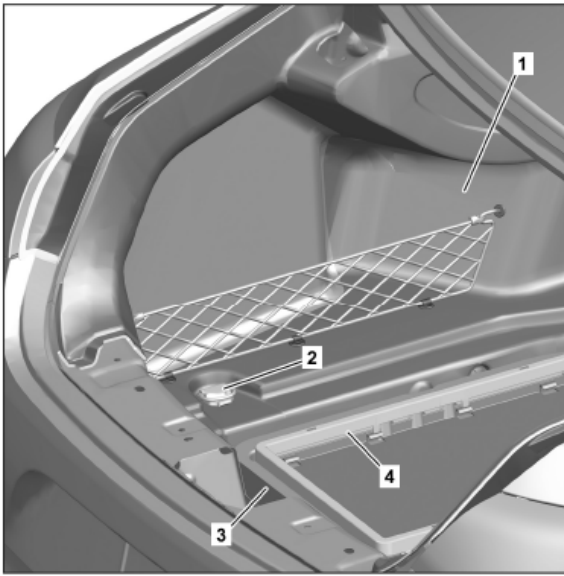
**Fig. 19: Identifying Clip Remover (452 589 01 63 00)**

Courtesy of MERCEDES-BENZ USA

**REMOVE/INSTALL SIDE PANELING IN TRUNK - AR68.30-P-4800FR**

Model 257





P68.30-4008-09

1 Side trunk paneling  
2 Tie-down eye

3 Support  
4 Stowage box

Shown on left side of vehicle on model 257 with code 287 (Folding seat backrests in rear) and with code B01 (48V technology) and with code 30P (Stowage Space Package)

<b>WARNING!</b>	<b>Risk of injury</b> caused by fingers being jammed or pinched when removing, installing or aligning hoods, doors, trunk lid/rear-end door or sliding roof.	No parts of the body or limbs should be within the operating area when the components are moving.	<a href="#">AS00.00-Z-0011-01A</a>
$\hat{A}$	Notes on HANDS-FREE ACCESS	$\hat{A}$	<a href="#">AH80.61-P-0001-01A</a>
	<b>Remove/install</b>	$\hat{A}$	$\hat{A}$
1	Remove rear center assembly paneling	$\hat{A}$	<a href="#">AR68.30-P-4786FR</a>
2	Remove trunk floor front section	$\hat{A}$	<a href="#">AR68.80-P-0005FR</a>
3	Remove support (3) with stowage box (4)	Model 257 with code 30P (Stowage Space package) Model 257 with code B01 (48V technology)	$\hat{A}$
4.1	Remove lashing eye (2)	Model 257 with code 287 (Folding seat backrests in rear passenger compartment)	<a href="#">*BA68.50-P-1001-03J</a>

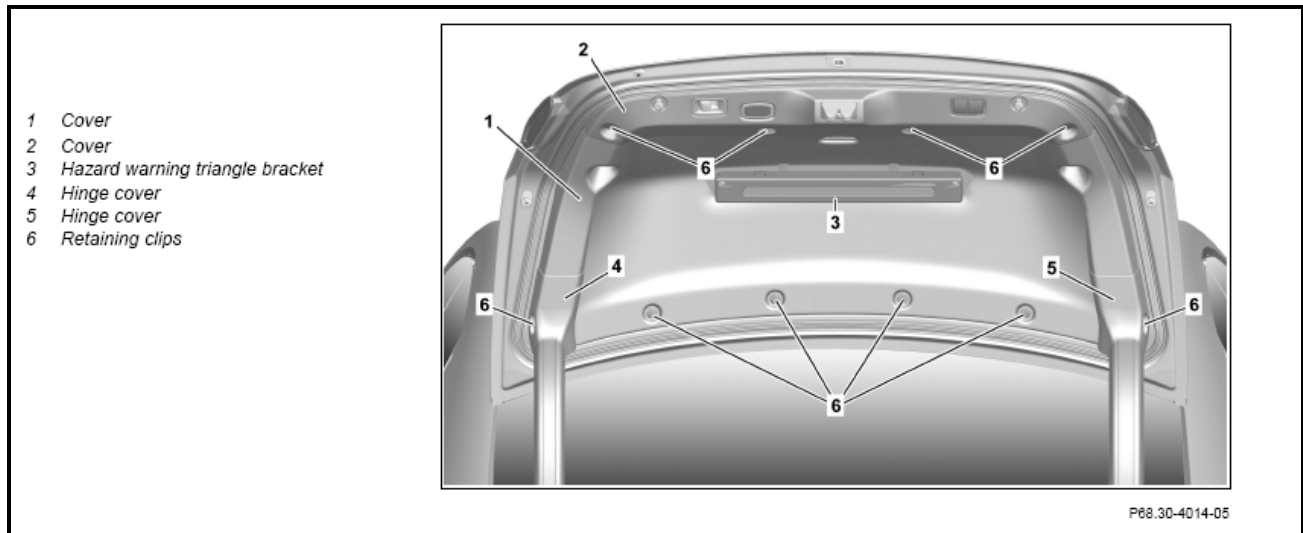
		<b>Nm</b> Bolt, cargo retainers/tie-down eye to body	
4.2	Remove mesh hooks	Model 257 except code 287 (Folding seat backrests in rear passenger compartment)	Â
5	Remove retaining clips (arrows)	Â	Â
6	Remove cover in side of trunk (1)	Â	Â
7	Install in the reverse order	Â	Â

**CARGO RETAINERS**

Number	Designation	Model 257
BA68.50-P-1001-03J	Bolt, cargo retainers/tie-down eye to body Nm	24

**REMOVE/INSTALL TRUNK LID COVER - AR68.30-P-8151FR**

**Model 257**



	<b>WARNING!</b> Risk of injury caused by fingers being jammed or pinched when removing, installing or aligning hoods, doors, trunk lid/rear-end door or sliding roof.	No parts of the body or limbs should be within the operating area when the components are moving.	<a href="#">AS00.00-Z-0011-01A</a>
Â	Notes on sensor system for trunk lid opening/closing	Â	<a href="#">AH80.61-P-0001-01A</a>
	<b>Remove/install</b>	Â	Â
1	Remove warning triangle (3) from warning triangle bracket	Â	Â
2	Remove rear hazard warning triangle (3)	Clip remover	<a href="#">Fig. 20</a>
3	Unclip retaining clips (6)	Clip remover	<a href="#">Fig. 20</a>

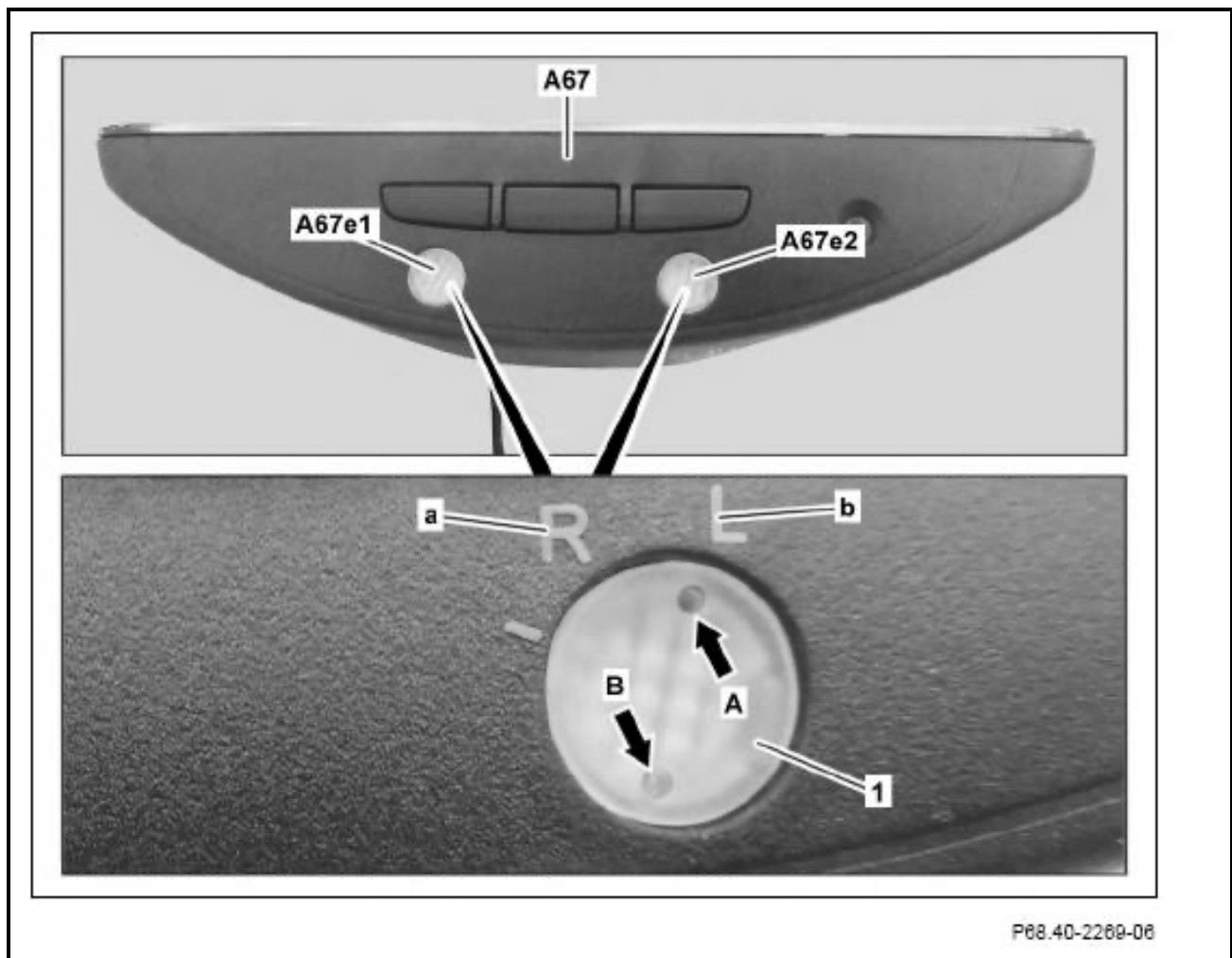
4	Unclip paneling (2) and disconnect electrical connector	<b>i</b> The number of electrical connectors may vary depending on the equipment.	Â
5	Remove trim panel (2)	Â	Â
6	Remove hinge covers (4, 5)	Â	Â
7	Remove trim (1)	Â	Â
8	Install in the reverse order	Â	Â

**Fig. 20: Identifying Clip Remover (452 589 01 63 00)**

Courtesy of MERCEDES-BENZ USA

**ADJUST READING LAMP IN INSIDE REARVIEW MIRROR TO STEERING VARIANT - AR68.40-P-0001-01FR**

Model 257, 290



**i** Adjust left reading lamp (A67e1) and right reading lamp (A67e2) according to vehicle steering variant so that a dazzling of the driver is prevented.

Cutout (arrow A) of lens (1) must be at marking "R" (a) in right-hand drive vehicles.

Cutout (arrow A) of lens (1) must be at marking "L" (b) in LHD vehicles.

- Using retaining ring pliers, position lens (1) on left reading lamp (A67e1) and right reading lamp (A67e2) on cutouts (arrow A, arrow B) to appropriate marking "R" (a) or "L" (b).



Carefully turn lens (1).

as otherwise lens (1) may be damaged.

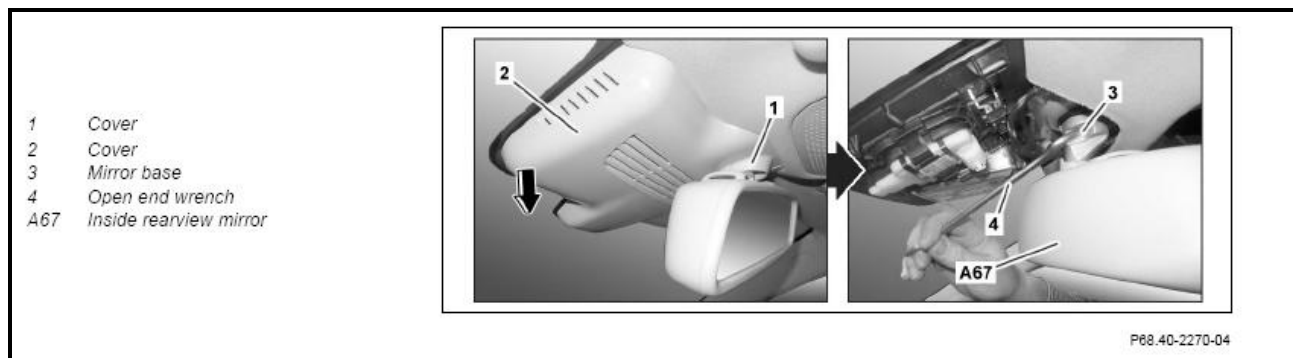


Use lock ring pliers with tip diameter of max. 1.3 mm and an opening of min. 20 mm.

### REMOVE/INSTALL INSIDE REARVIEW MIRROR - AR68.40-P-0001FR

Model 257, 290

Shown on model 257



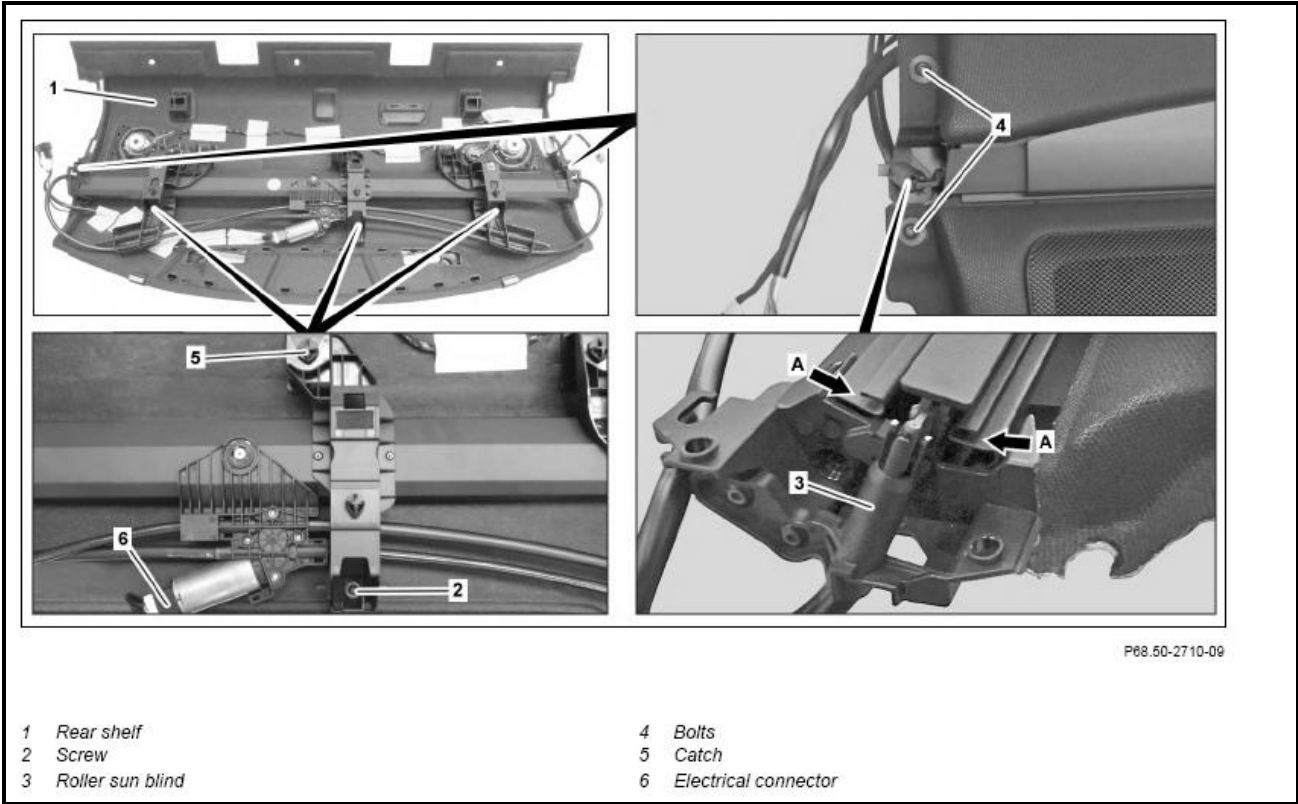
	<b>WARNING!</b> Risk of injury caused by irritation of the skin, eyes and respiratory system through contact or inhalation of substances contained in the mirror lens.	Wear protective gloves and safety glasses.	<a href="#">AS60.00-Z-0008-01R</a>
Topical note	Information on preventing damage to electronic components due to electrostatic discharge	Â	<a href="#">AH54.00-P-0001-01A</a>
	<b>Remove/install</b>	Â	Â
1	Remove overhead control panel control unit.	Â	<a href="#">AR82.20-P-1000FR</a>
2	Unclip and remove cover (1).	Â	Â
3	Unclip and remove cover (2) in direction of arrow.	Â	Â
4	Turn inside rearview mirror (A67) at mirror base (3) toward right using an open-end wrench (4) and remove from mirror bracket.	Â	Â
5	Adjust reading lamps of inside rearview mirror (A67) to steering variant.	When replacing inside rearview mirror (A67).	<a href="#">AR68.40-P-0001-01FR</a>
6	Install in the reverse order.	Â	Â

### REMOVE, INSTALL ROLLER SUN BLIND - AR68.50-P-3400FR

Model 257

with code 540 (Electric roller blind for rear window)





	Remove/install		
1	Remove rear shelf (1)		<a href="#">AR68.30-P-4581FR</a>
2	Unscrew bolts (2)		
3	Disconnect electrical connector (6)		
4	Turn rear shelf (1) with roller sun blind (3)	Carefully rear shelf (1) with roller sun blind (3). Otherwise the two parts of the rear shelf (1) can be damaged.	
5	Remove bolt s (4)		
6	Remove both parts of rear shelf (1) from roller sun blind (3)	<b>Installation</b> Observe correct positioning and installation in mounts (arrows A)..	
7	Install in the reverse order		

**REMOVE/INSTALL SUN VISOR - AR68.60-P-5480FR**





Model 257, 290

**Fig. 21: Sun Visor Component Location - Model 257**

Courtesy of MERCEDES-BENZ USA

Shown on model 257 on left side of vehicle

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	<b>Remove</b>	Â	Â
1	Fold down sun visor (1), unclip from bracket (3) and swivel to side.	Â	Â
2	Unclip cover (6) at hinge (2) and remove.	 Dismantling tool	<a href="#">Fig. 22</a>
3	Unclip cover (4) at bracket (3) and remove.	 Dismantling tool	<a href="#">Fig. 22</a>
4	Press clips (5) at bracket (3) together and remove bracket (3).	Â	Â
5	Press clips (5) at hinge (2) together and remove sun visor (1).	Â	Â
	<b>Install</b>	Â	Â
6	Clip cover (6) and clip (5) into hinge (2).	Â	Â
7	Insert hinge (2) into roof and clip in.	Â	Â
8	Clip cover (4) and clips (5) into bracket (3).	Â	Â
9	Clip bracket (3) into roof.	Â	Â
10	Clip sun visor (1) into bracket (3) and fold up.	Â	Â

**Fig. 22: Identifying Dismantling Tool (000 589 95 63 00)**

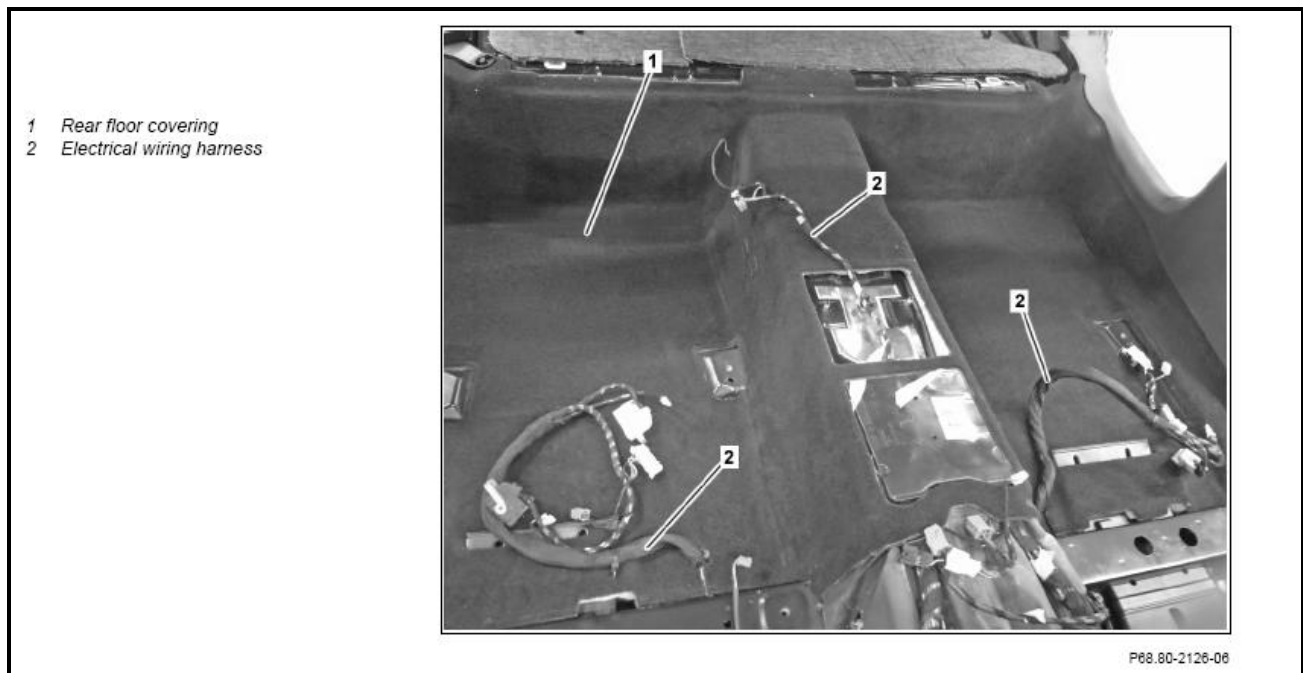
Courtesy of MERCEDES-BENZ USA


**REMOVE/INSTALL FLOOR COVERING IN REAR PASSENGER COMPARTMENT - AR68.80-P-0003FR**


Model 257

Model 290

Shown on model 257



	<b>Remove/install</b>	Â	Â
1	Remove rear door sills.	Â	Â

2	Remove front seats.	Â	<a href="#">AR91.10-P-1000FR</a>
3	Remove rear seat cushion.	Model 290 except code 568 (3-seater rear bench seat)	AR91.12-P-1021FRX
Â	Â	Model 257 Model 290 with code 568 (3-seater rear bench seat)	<a href="#">AR91.12-P-1021FR</a>
4	Remove center console.	Model 290	AR68.20-P-2000FRX
Â	Â	Model 257	<a href="#">AR68.20-P-2000FR</a>
5	Remove stowage compartment in the rear passenger compartment.	Model 290 except code 287 (Folding seat backrests in rear passenger compartment)	AR68.20-P-2500FRX
6	Guide out rear passenger compartment floor covering (1) under the B-pillar trims.	 Long wedge	<a href="#">Fig. 23</a>
7	Guide electrical wiring harnesses (2) through the rear passenger compartment floor covering (1).	Â	Â
8	Remove rear passenger compartment floor covering (1) from the vehicle.	Â	Â
9	Install in the reverse order	Â	Â

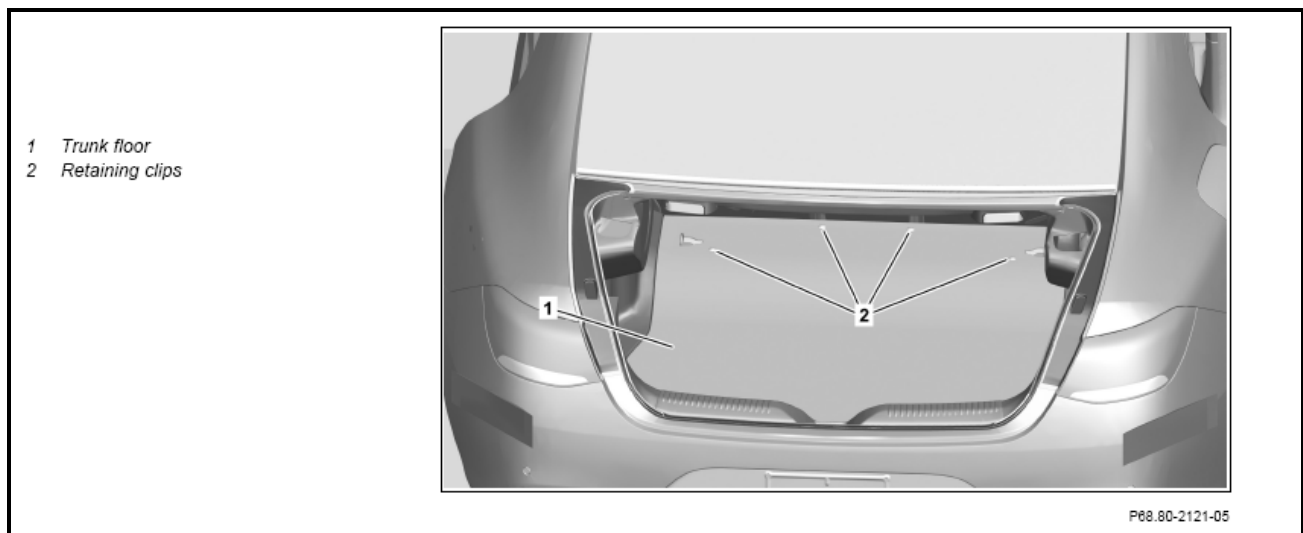
**[Fig. 23: Identifying Long Wedge \(115 589 03 59 00\)](#)**

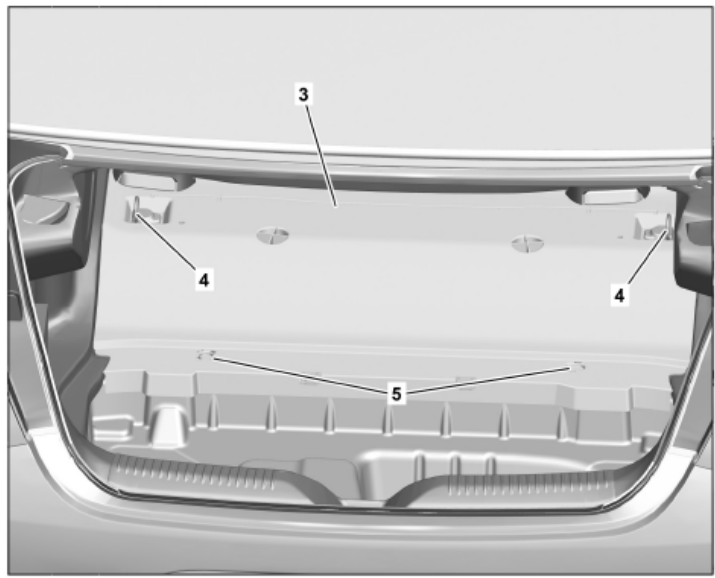
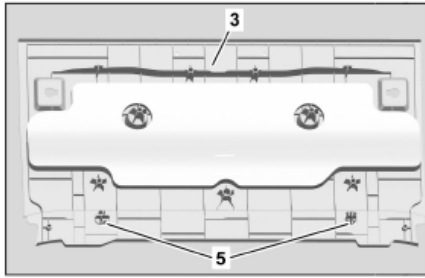
Courtesy of MERCEDES-BENZ USA

**REMOVE/INSTALL TRUNK FLOOR FRONT SECTION - AR68.80-P-0005FR**

**Model 257**

**Shown on model 257 with code 287 (Folding rear seat backrests)**



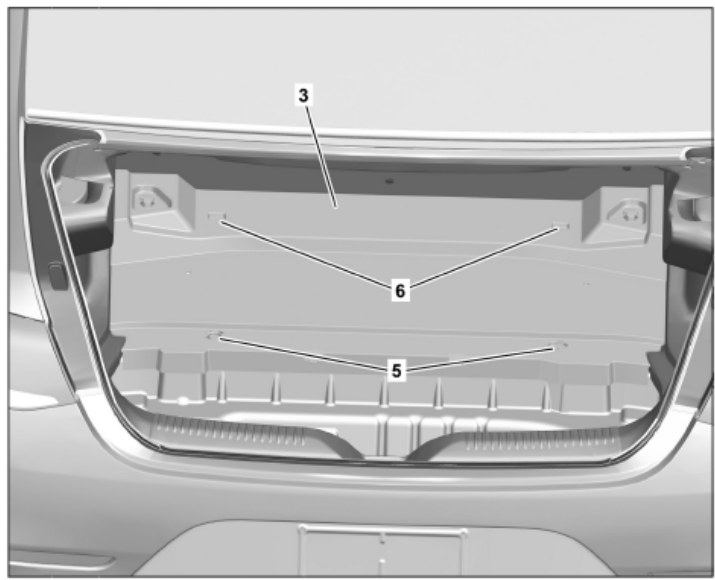
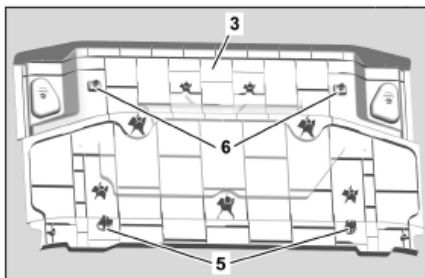


P68.80-2122-09

- 3 Trunk floor front section
- 4 Tie-down eye

5 Catches

**Shown on model 257 with code 287 (Folding rear seat backrests)**








P68.80-2123-09

- 3 Trunk floor front section
- 5 Catches

6 Catches

Shown on model 257 except code 287 (Folding rear seat backrests)

 <b>WARNING!</b>	<b>Risk of injury</b> caused by fingers being jammed or pinched when removing, installing or aligning hoods, doors, trunk lid/rear-end door or sliding roof.	No parts of the body or limbs should be within the operating area when the components are moving.	<a href="#">AS00.00-Z-0011-01A</a>
Â	Notes on HANDS-FREE ACCESS	Â	<a href="#">AH80.61-P-0001-01A</a>
	<b>Remove/install</b>	Â	Â
1	Remove retaining clips (2) and trunk floor (1)	 Model 257 except code 287 (Folding seat backrests in rear passenger compartment) Only two retaining clips (2) are installed.	Â
2	Remove tie-down eyes (4)	Model 257 with code 287 (Folding seat backrests in rear passenger compartment)  Bolt, cargo retainers/tie-down eye to body	<a href="#">*BA68.50-P-1001-03J</a>
3	Release trunk floor front section (3) from the catches (6) with a suitable screwdriver	Model 257 except code 287 (Folding seat backrests in rear passenger compartment)	Â
4	Release trunk floor front section (3) from the catches (5) with a suitable screwdriver	Â	Â
5	Unclip trunk floor front section (3) and remove toward rear	 Long wedge	<a href="#">Fig. 24</a>
6	Install in the reverse order	Â	Â

**CARGO RETAINERS**

Number	Designation	Model 257
BA68.50-P-1001-03J	Bolt, cargo retainers/tie-down eye to body	Nm 24

[Fig. 24: Identifying Long Wedge \(115 589 03 59 00\)](#)

Courtesy of MERCEDES-BENZ USA

**REMOVE/INSTALL FRONT FLOOR COVERING ON DRIVER'S SIDE - AR68.80-P-0007FR**

Model 257

Model 290





Shown on model 257



- 1 Floor covering
- 2 Door sill
- 3 Accelerator pedal



P68.80-2125-11

	Remove/install	^	^
1	Remove floor mat.	^	^
2	Release driver's seat and tilt toward the rear.	 Do not disconnect electrical connectors.	<a href="#">AR91.10-P-1000FR</a>
3	Remove trim under driver's side instrument panel.	^	<a href="#">AR68.10-P-1501FR</a>
4	Remove accelerator pedal (3).	^	<a href="#">AR30.12-P-1321FR</a>
5	Remove door sill (2).	^	^
6	Remove floor covering (1) from the front to the rear.	 <b>Installation</b> Position floor covering (1) below center console.	^
^	^	 Long wedge	<a href="#">Fig. 25</a>
7	Install in the reverse order.	^	^

**[Fig. 25: Identifying Long Wedge \(115 589 03 59 00\)](#)**

Courtesy of MERCEDES-BENZ USA

**REMOVE/INSTALL FRONT FLOOR COVERING ON FRONT PASSENGER SIDE - AR68.80-P-0008FR**

**Model 257**





**Model 290**



- 1 Floor covering
- 2 Door sill



P68.20-4745-11

	Remove/install	Â	Â
1	Remove floor mat.	Â	Â
2	Release front passenger seat and tilt toward the rear.	 Do not disconnect electrical connectors.	<a href="#">AR91.10-P-1000FR</a>
3	Remove door sill (2).	Â	Â
4	Remove trim below instrument panel on passenger side.	Â	<a href="#">AR68.10-P-1502FR</a>
5	Remove floor covering (1) from the front to the rear.	 <b>Installation</b> Position floor covering (1) below center console.	Â
Â	Â	 Long wedge	<a href="#">Fig. 26</a>
6	Install in the reverse order.	Â	Â

**Fig. 26: Identifying Long Wedge (115 589 03 59 00)**

Courtesy of MERCEDES-BENZ USA

## MAINTENANCE

### **CLEAN DOME (PREFABRICATED HEADLINER) FROM TEXTIL MATERIAL, FLOOR COVERINGS, REAR SHELF, AND OTHER TEXTILES - AP68.00-P-1000-01A**

#### **Model all**

#### **Work procedure:**

Remove dry contamination such as dust, ashes, etc. with dust extractor.\* If this is not possible, e.g. deep-seated dry contamination, brush seat with nylon or natural hair brush (not metal brush) and vacuum.

Clean severe spots and soil first with MB car shampoo. Soak up MB car shampoo with absorbent rags or paper towel and dry (with air drier if required). If this is not successful, clean again with MB spot remover after drying.

For this purpose, use a rag saturated with MB spot remover.

Generally soak up dissolved spot substances with absorbent rag or paper towel and dry.



Spots cannot always be removed without leaving a ring. In such cases, uniformly clean the individual column, the entire part or the entire surface.

Carpeting can also be cleaned using the spray vacuum process with carpet cleaning machines

(e.g. Puzzi machine from Karcher company, etc.).

**REPAIR MATERIALS**

Number	Designation	Order number
BR00.45-Z-1004-04A	Stain removal solution	A 001 986 28 71
BR00.45-Z-1003-04A	Textile cleaner	A 001 986 25 71
BR00.45-Z-1002-04A	Car shampoo	A 001 986 41 71

**CLEAN SYNTHETIC LEATHER HEADLINER (STRETCH HEADLINER) - AP68.00-P-1000-02A**

**Model all**

**Work procedure**

Apply uniformly and thinly with lint-free rag to prevent fluid from penetrating through the fine perforations.





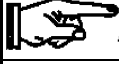

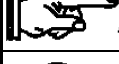

Do not use solvent (naphtha or similar) Damages the surface of the synthetic leather.

**REPAIR MATERIALS**





Number	Designation	Order number
BR00.45-Z-1005-04A	Cleaner, plastic parts 250 ml	A 000 986 51 71
BR00.45-Z-1003-04A	Textile cleaner	A 001 986 25 71
BR00.45-Z-1002-04A	Car shampoo	A 001 986 41 71

**CLEANING THE VEHICLE INTERIOR - AP68.00-P-1000ZZ**

**MODEL all**

 <b>AP</b>	Cleaning vehicle headliners of textile material (prefabricated headliners), floor coverings, rear shelf coverings, and other textiles	Â	<a href="#">AP68.00-P-1000-01A</a>
 <b>AP</b>	Cleaning synthetic leather vehicle headliners (tensioned headliners)	Â	<a href="#">AP68.00-P-1000-02A</a>
 <b>AP</b>	Cleaning seat belts	Â	<a href="#">AP91.40-P-1000-01A</a>
 <b>AP</b>	Cleaning instrument cluster, steering wheel and gearshift lever (standard version)	Â	<a href="#">AP68.10-P-1000-01A</a>
 <b>AP</b>	Cleaning leather upholstery, leather steering wheel, and leather gearshift lever	Â	<a href="#">AP91.18-P-1000-01A</a>
 <b>AP</b>	Cleaning plastic covering parts	Â	<a href="#">AP68.30-P-1000-01A</a>



 <b>AP</b>	Cleaning MB Tex upholstery	Â	<a href="#">AP91.18-P-1000-02A</a>
 <b>AP</b>	Cleaning fabric upholstery	Â	<a href="#">AP91.18-P-1000-03A</a>
 <b>AP</b>	Cleaning velours upholstery	Â	<a href="#">AP91.18-P-1000-04A</a>
 <b>AP</b>	Cleaning amaretta upholstery	Â	<a href="#">AP91.18-P-1000-05A</a>

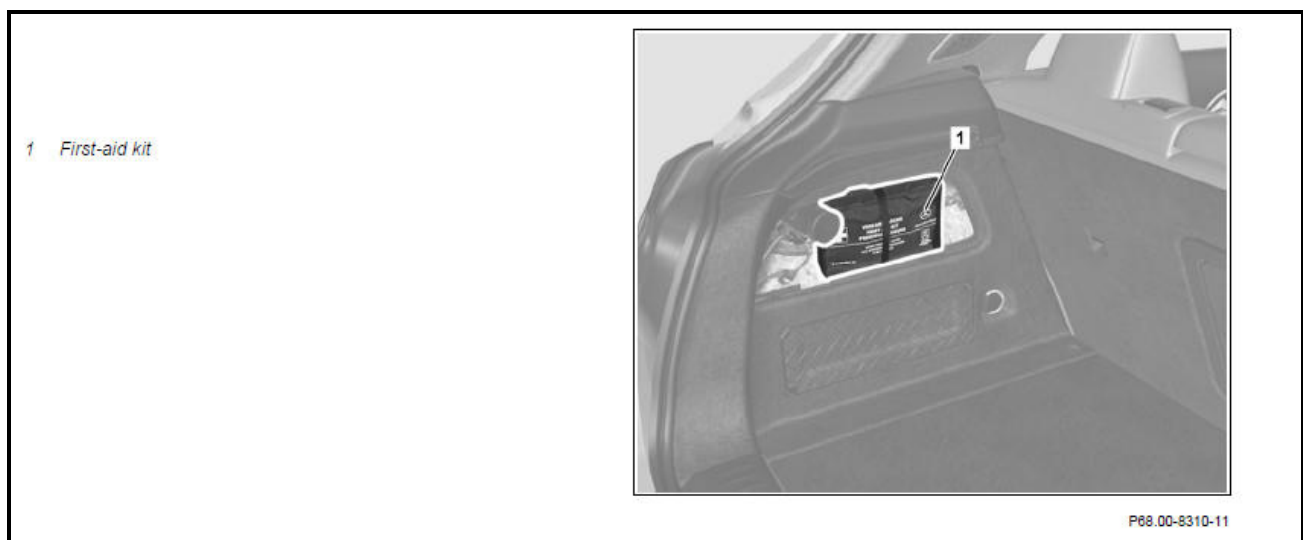
**CHECK FIRST AID KIT - AP68.00-P-6850EW**

Model 117, 118, 156, 164, 166, 167, 169, 171, 172, 176, 177, 190, 197.3/4, 203, 204, 205, 207, 209, 211, 212, 213, 216, 217, 218, 219, 221, 222, 230, 231, 238, 242, 243, 245, 246, 247, 251, 253, 257, 290, 292, 293, 463

First aid kit in front passenger seat shown on model 211, valid for model 211, 219, 230



First-aid kit behind side panel shown at left on model 176.0, valid for model 117, 156, 164, 169, 176, 197, 203, 218.9, 245



First-aid kit (soft sided) in stowage net shown at left on model 205, valid for model 167, 190, 204.0/3/9, 205, 209.3,

213, 238, 243, 293

1 First-aid kit



P68.00-8060-11

First-aid kit behind side panel shown at right on model 212.0, valid for model 204.2, 212.0, 218.3, 242, 246

1 First-aid kit

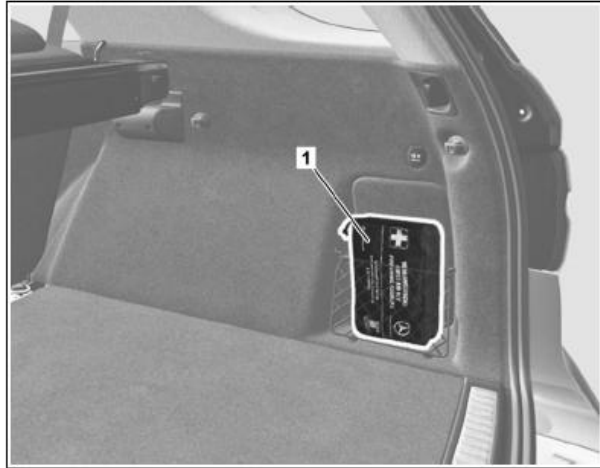


P68.00-8061-11

First-aid kit in stowage net shown at right on model 166.0, valid for model 166, 207, 216, 217, 221, 222



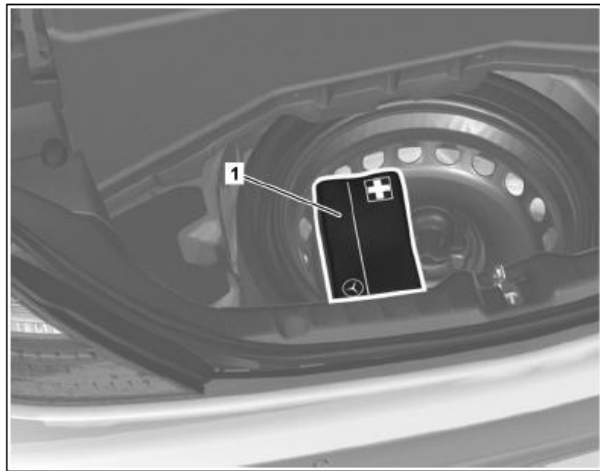
1 First-aid kit



P68.00-8311-11

**First-aid kit (soft sided) in trunk recess, shown on model 172, valid for model 118, 171, 172, 177, 209.4, 231, 247, 251, 253, 257, 290, 292**

1 First-aid kit



P68.00-8064-11

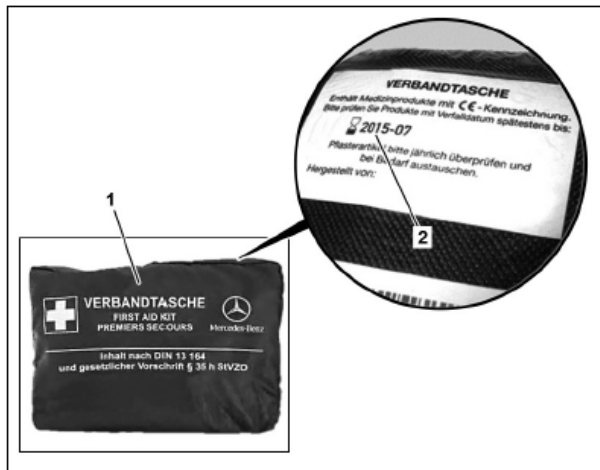
**First-aid kit in front passenger door, shown on model 463.348, valid for model 463**

1 First-aid kit







P68.00-8228-11

1 First-aid kit  
2 Expiration date



P68.00-8062-11

	<b>Remove</b>	Â	Â
1	Remove first-aid kit (soft sided) (1).	Â	Â
	<b>Check</b>	Â	Â
2	Check expiration date (2). ↓ replace first-aid kit (soft sided) (1).  After obtaining special order.	Â	Â
	<b>Install</b>	Â	Â
3	Insert first-aid kit (soft sided) (1).	Â	Â

**CLEAN INSTRUMENT CLUSTER, STEERING WHEEL AND GEARSHIFT LEVER (STANDARD VERSION) - AP68.10-P-1000-01A**

## Model all

### Work procedure

Wipe off with moist, lent-free rag.



Do **not** use scouring agent to prevent scratching surfaces.

Do **not** bring Plexiglas cover on instrument cluster and Mercedes Star in steering wheel into contact with solvent or cleaning agents containing solvents (danger of tension cracking).

Do not apply liquids to Plexiglas cover on instrument cluster.

### REPAIR MATERIALS

Number	Designation	Order number
BR00.45-Z-1002-04A	Car shampoo	A 001 986 41 71

### CLEAN PLASTIC PANELING PARTS - AP68.30-P-1000-01A

## Model all

### Work procedure

Wipe off with moist, lent-free rag and polish



Do **not** use scouring agent to prevent scratching the surfaces.. Do **not** allow MB plastic cleaner to come into contact with textile surfaces (spotting) Do not allow MB plastic cleaner to come into contact with Plexiglas cover on instrument (danger of tension cracks). Other agents (e.g. cockpit spray) which result in a glossy surface, are not permissible due to reflections.

### REPAIR MATERIALS

Number	Designation	Order number
BR00.45-Z-1002-04A	Car shampoo	A 001 986 41 71
BR00.45-Z-1005-04A	Cleaner, plastic parts 250 ml	A 000 986 51 71

## RETROFITTING & CONVERSION

### FABRICATE DRILLING TEMPLATE FOR LUGGAGE NET HOLDER - AZ68.50-P-0007-01EW

#### Model 213, 238, 253, 257, 293

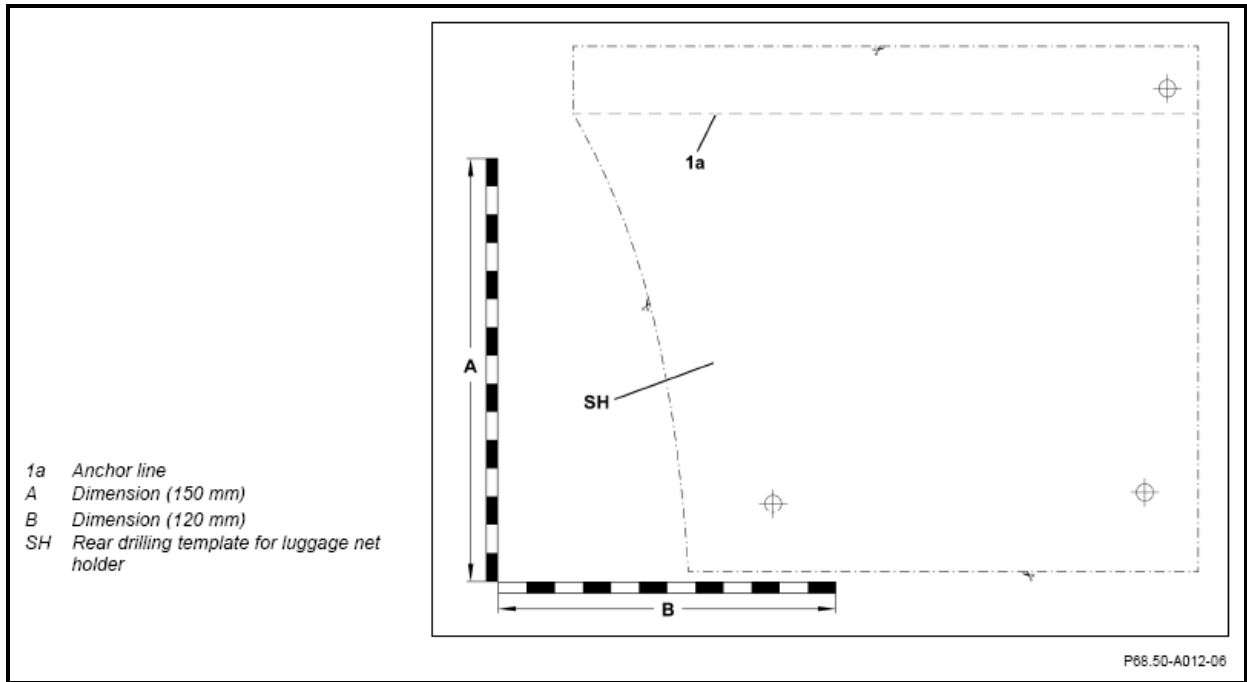
1. Print out drawing of rear drilling template for luggage net holder (SH).
2. Determine dimensions (A, B) of print-out.
3. Determine scaling factor.



Divide dimension specified (A) by dimension determined (A).

Divide dimension specified (B) by dimension determined (B).

4. Copy printed-out rear drilling template for luggage net holder (SH) to original size using determined scaling factor.
5. Check dimension (A) and dimension (B) of copy.
6. Cut out rear drilling template for luggage net holder (SH).



**Fabricate rear drilling template for luggage net holder (SH)**

7. Print out drawing of front drilling template for luggage net holder (SV).
8. Determine dimensions (A, B) of print-out.
9. Determine scaling factor.

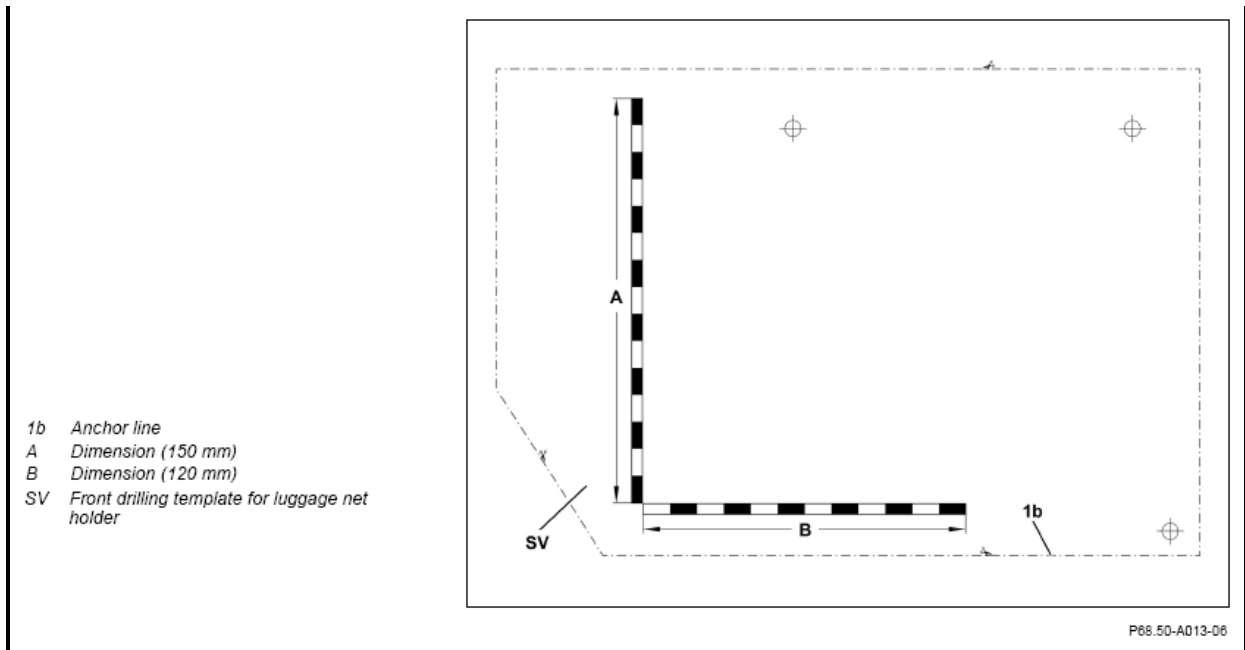
**i** Divide dimension specified (A) by dimension determined (A).

Divide dimension specified (B) by dimension determined (B).

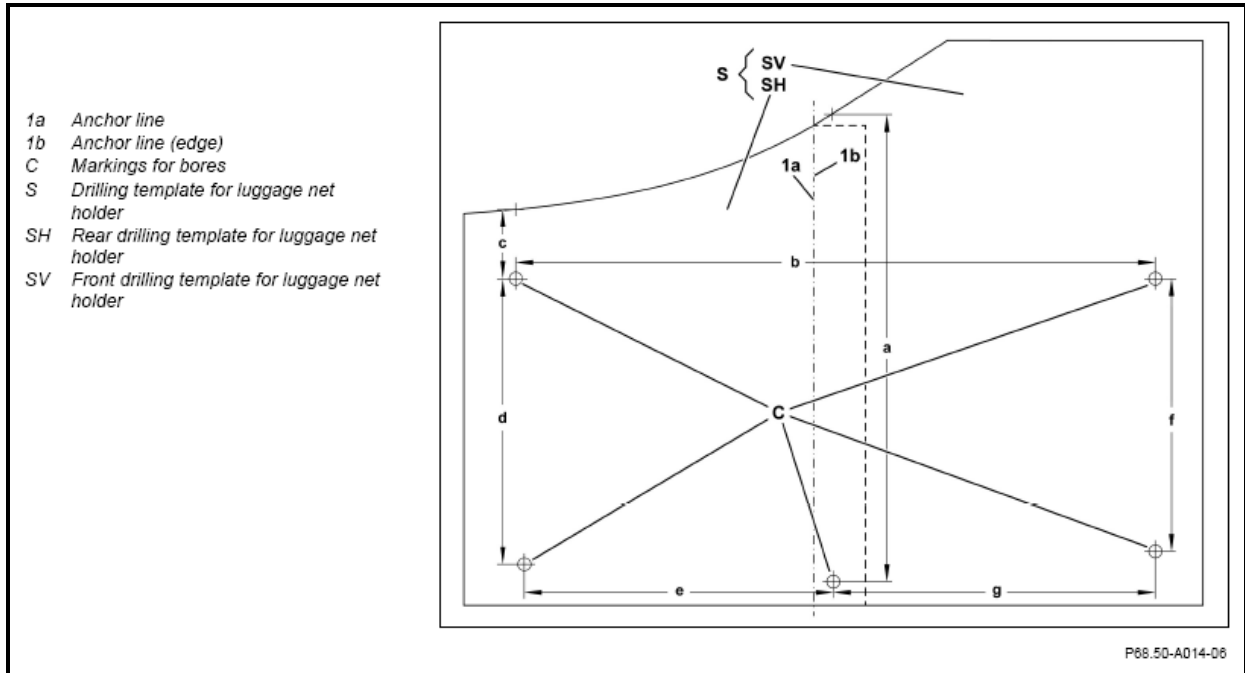
10. Copy printed-out front drilling template for luggage net holder (SV) to original size using determined scaling factor.
11. Check dimension (A) and dimension (B) of copy.
12. Cut out front drilling template for luggage net holder (SV).

**Front drilling template for luggage net holder (SV)**





**Join drilling templates together**



13. Align rear drilling template for luggage net holder (SH) and front drilling template for luggage net holder (SV) with anchor lines (1a, 1b).
14. Fix rear drilling template for luggage net holder (SH) and front drilling template for luggage net holder (SV) in place with adhesive tape.
15. Check dimensions.

**i** Dimension "a" = 216 mm

Dimension "b" = 296 mm

Dimension "c" = 32 mm

Dimension "d" = 132 mm

Dimension "e" = 143 mm

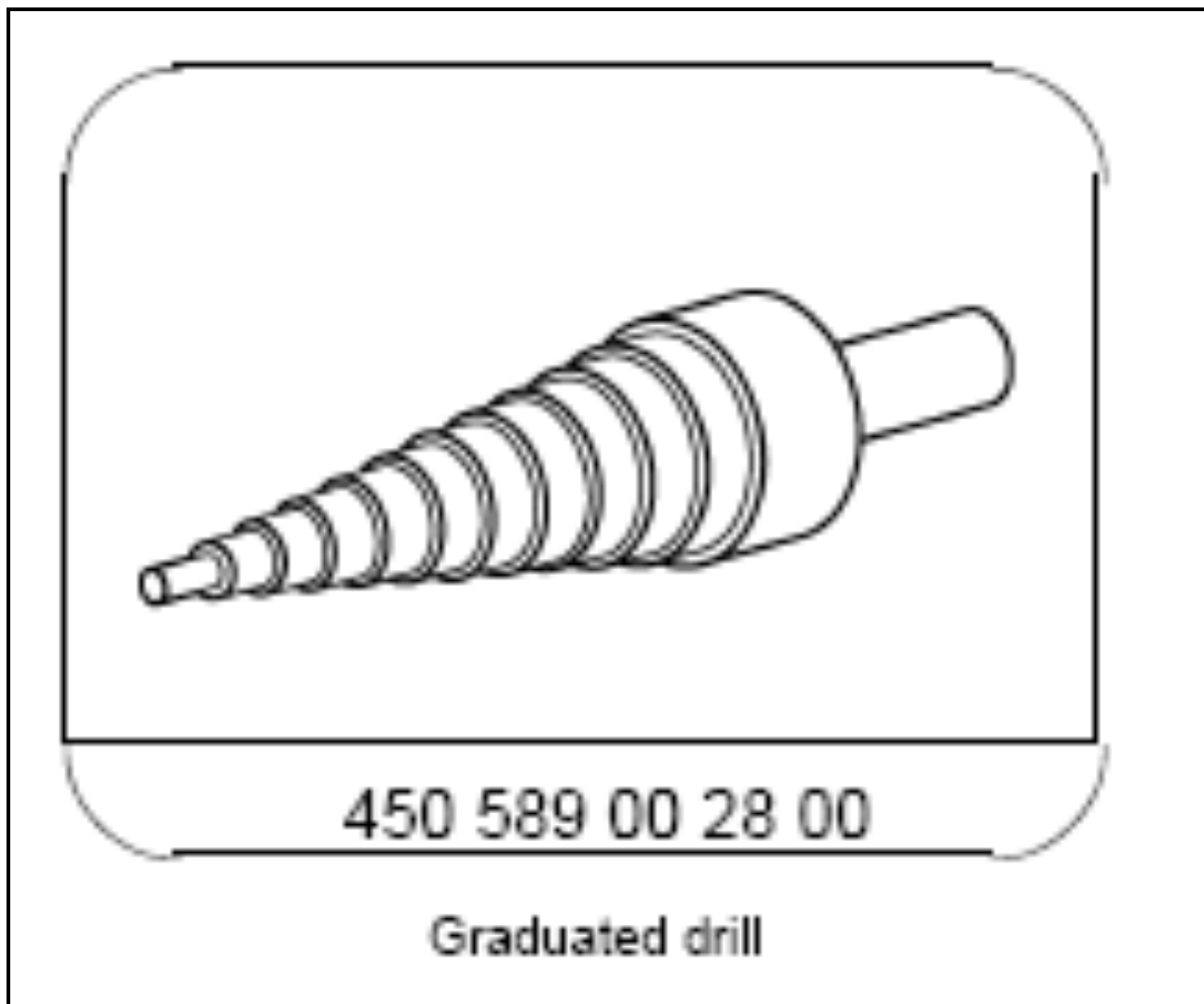
Dimension "f" = 126 mm

Dimension "g" = 149 mm

16. Pierce markings for bores (C) in center on created drilling template for luggage net holder (S) with suitable tool.

**RETROFIT LUGGAGE NET WITH HOLDER - AZ68.50-P-0007-02EW**

**Model 167, 213, 238, 253, 257, 293**



1. Position protective plate (5) behind front floor covering (2).

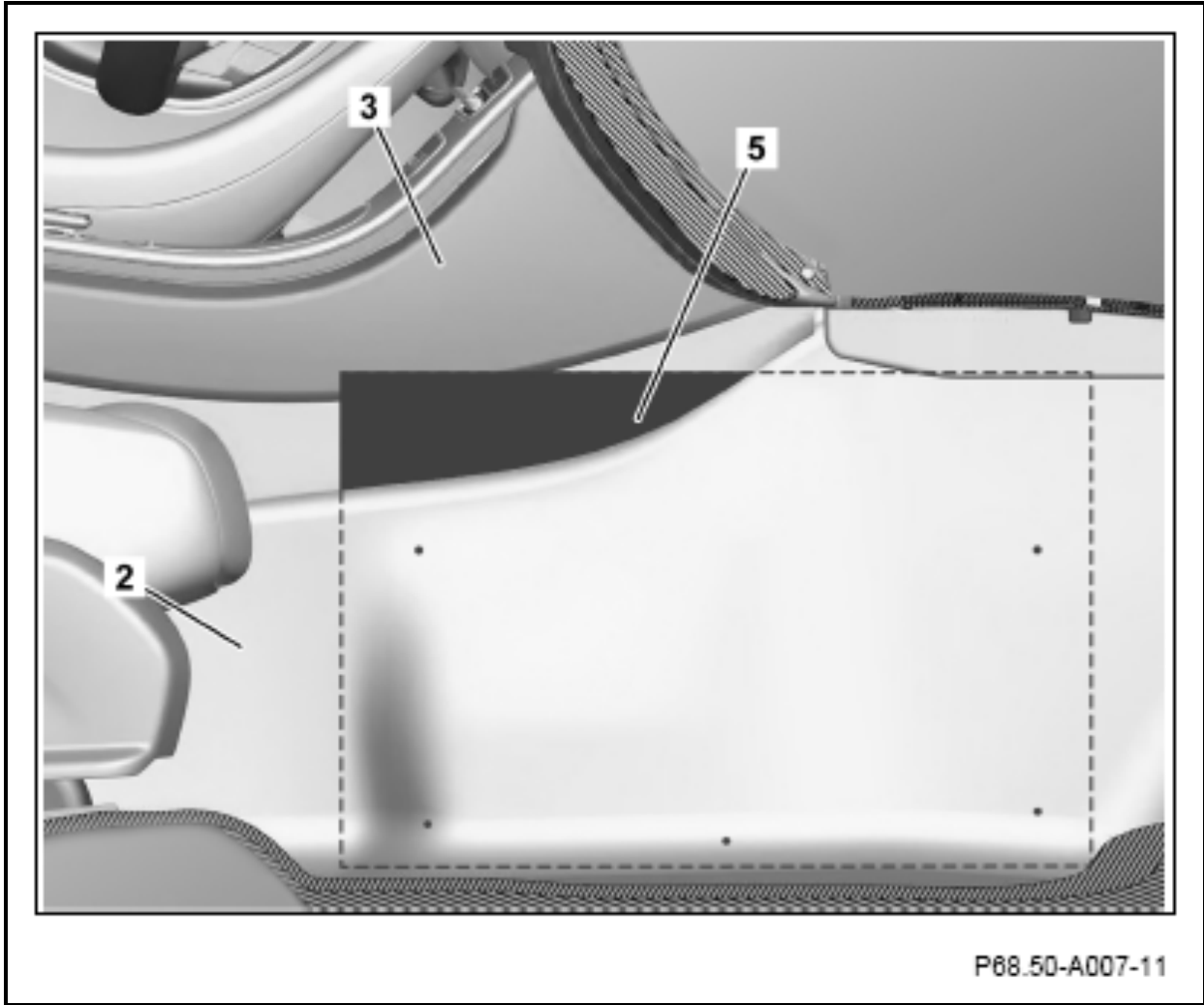



Protective plate (5) must, without fail, be positioned behind front floor covering (2).

The underlying component parts will otherwise be damaged during drilling.

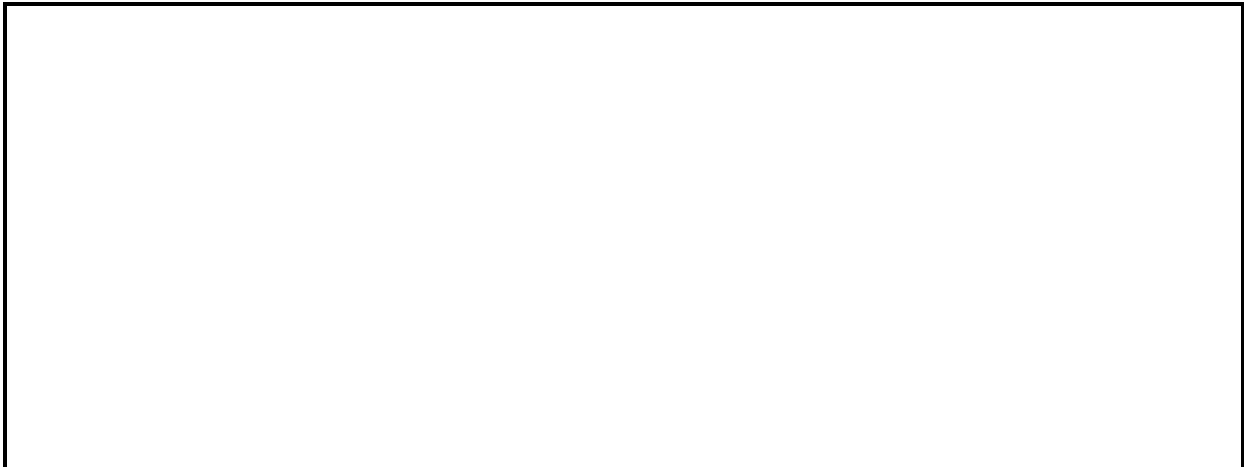


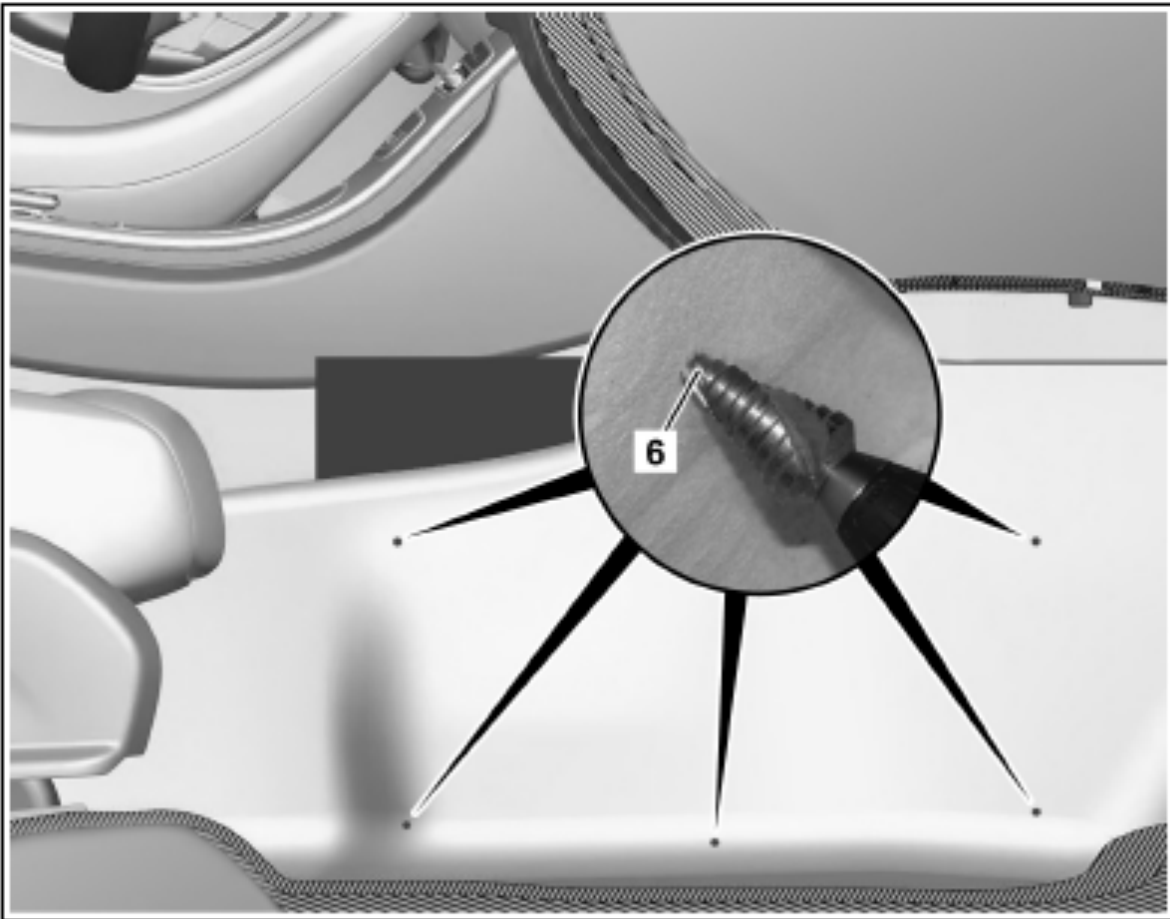
**i** Use commercially available protective plate, e.g. steel plate or similar.



2. Drill applied markings up to first step of stepped drill bit (6) .

**i** First step corresponds to  $\tilde{\Delta}$  6 mm.





P68.50-A008-11

3. Using a suitable side cutting pliers (7), cut lower bores at front floor covering (2) approx. 3 mm deep upwards.

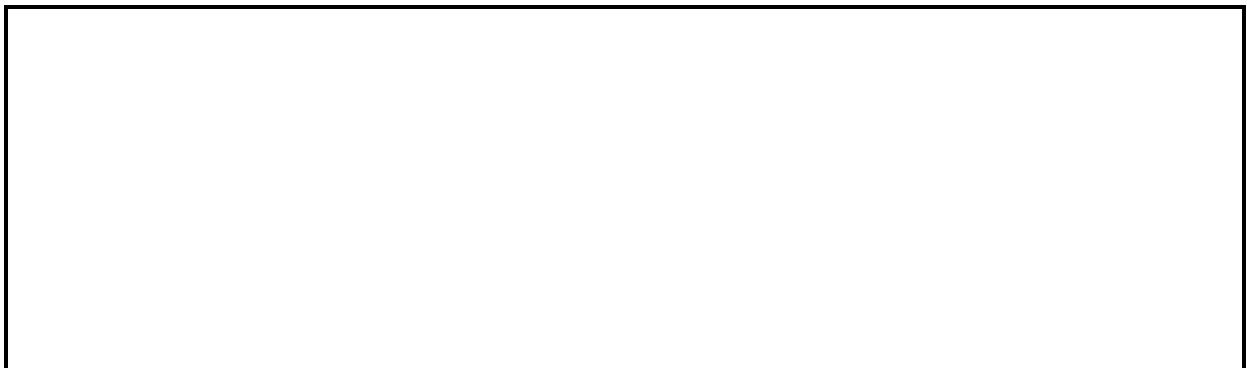


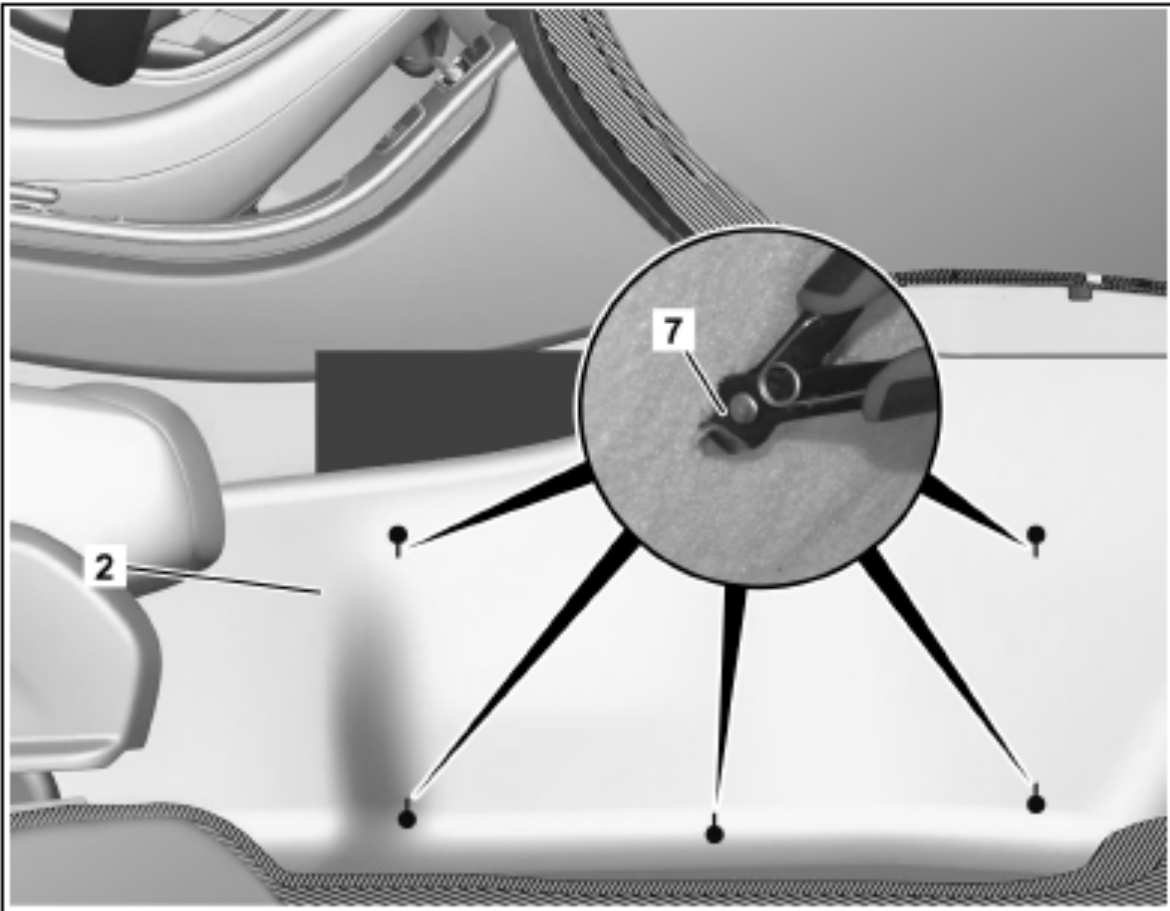
Do not cut bores at front floor covering (2) too deep. The firm hold of the luggage net will otherwise not be ensured.

4. Using a suitable side cutting pliers (7), cut upper bores at front floor covering (2) approx. 3 mm deep downwards.



Do not cut bores at front floor covering (2) too deep. The firm hold of the luggage net will otherwise not be ensured.





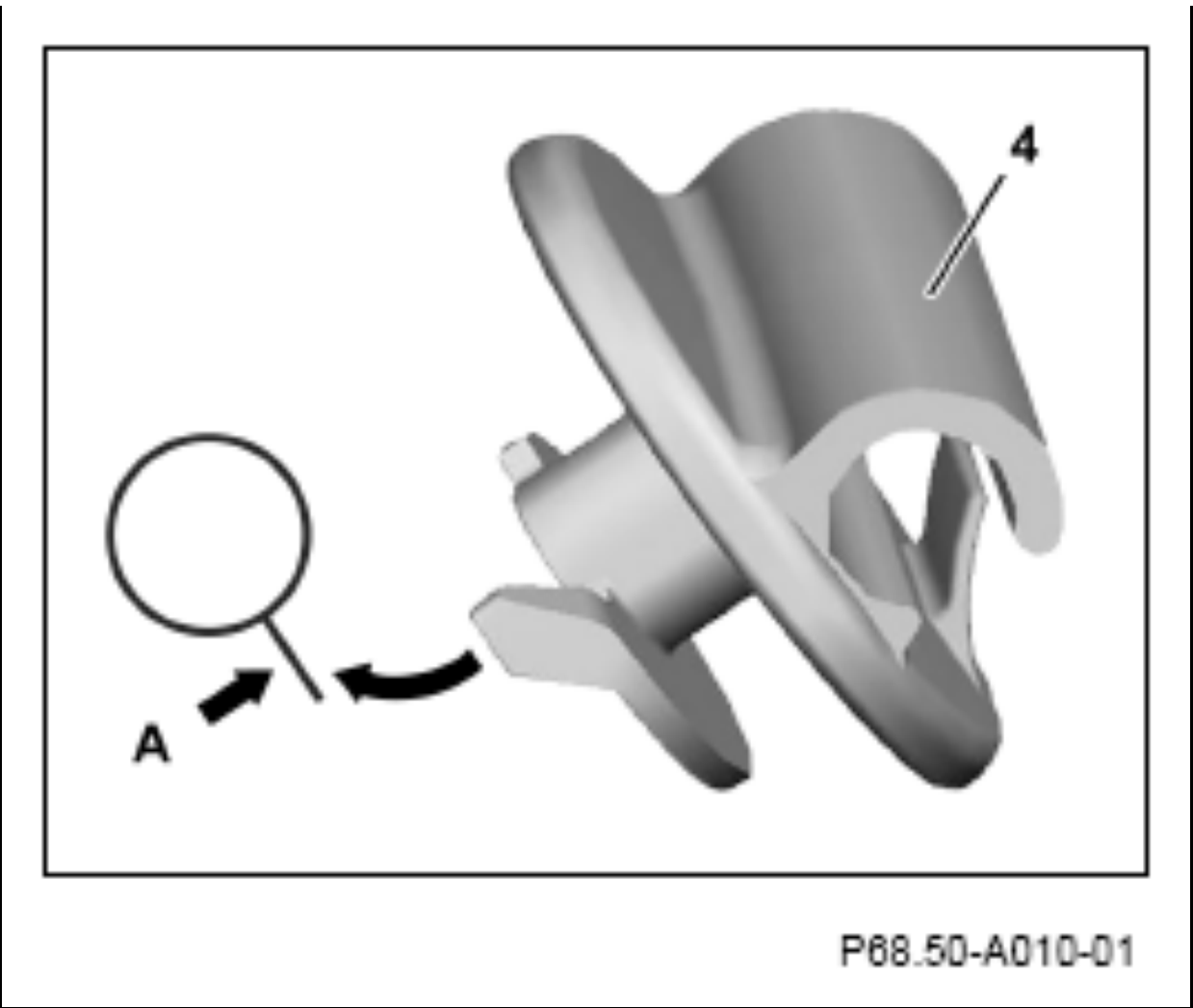
P68.50-A009-11

5. Screw brackets (4) into incorporated bores.



Start at respective cutting edge (arrow A).





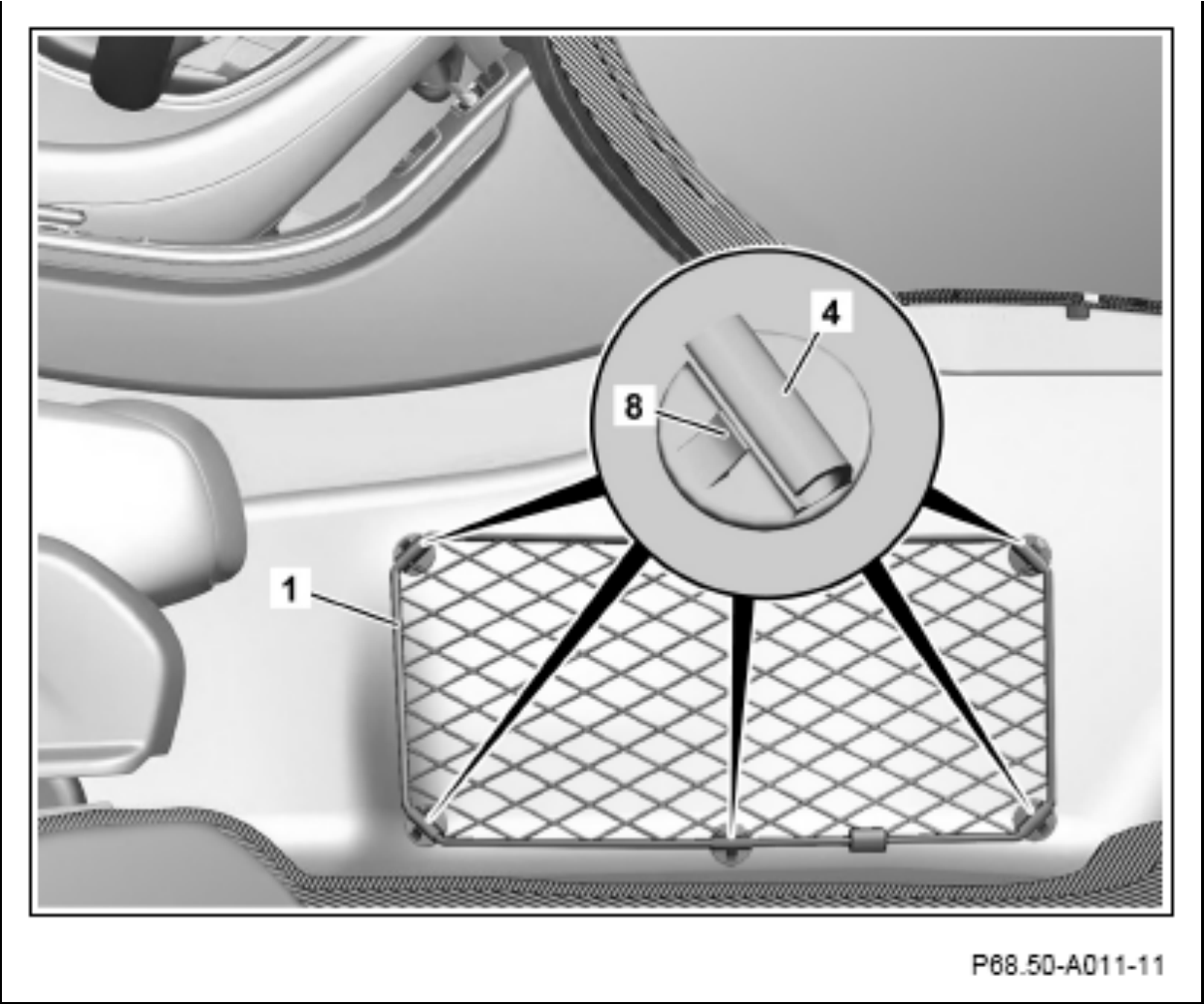
6. Align brackets (4).

**i** Openings at brackets (4) must point outwards.

7. Attach luggage net (1) to brackets (4).

**i** Check strap of luggage net (1) must be located behind lugs (8) of brackets (4).

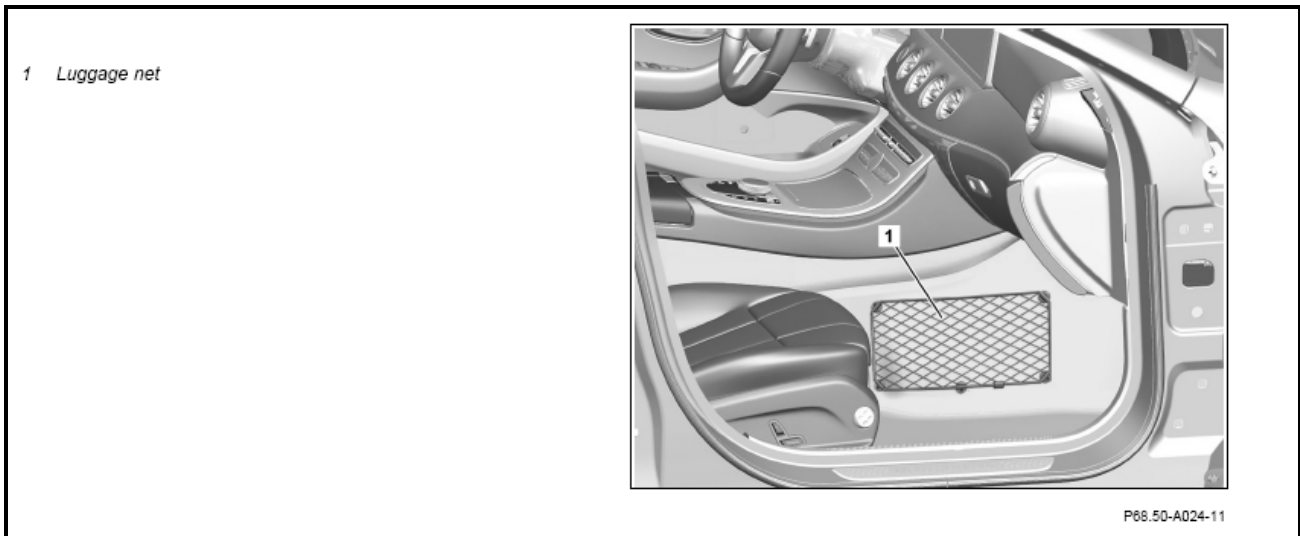




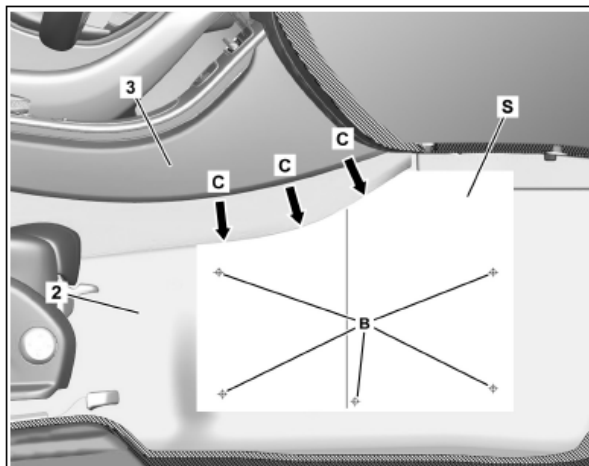
**RETROFIT LUGGAGE NET FOR PASSENGER-SIDE FOOTWELL - AZ68.50-P-0007FR**

**Model 257**

**as of model year 2021**

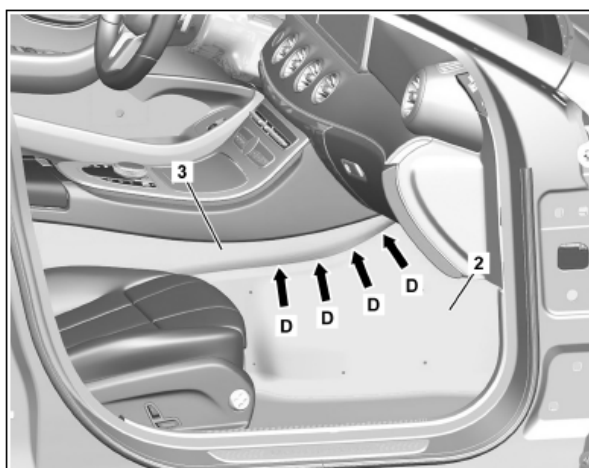


- 2 Front floor covering
- 3 Center console
- B Markings for bores
- S Drilling templates for luggage net brackets








P68.50-A025-11

- 2 Front floor covering
- 3 Center console



P68.50-A026-11

Â	Work preparation	Â	Â
1	Produce drilling template for luggage net brackets (S).	Â	<a href="#">AZ68.50-P-0007-01EW</a>
2	Place drilling template for luggage net brackets (S) in position against front floor covering (2) at front passenger side.	<p><b>i</b> Contour of drilling template for luggage net brackets (S) must match with contour of center console (3) (arrows C).</p> <p><b>i</b> Model 257.### 2#</p> <p>In the case of a right-hand drive vehicle, the drilling template for the luggage net brackets (S) must be positioned mirror-inverted.</p>	Â
3	Transfer markings for bores (B) to front floor covering (2) using a suitable pen.	Â	Â

	<b>Remove</b>	Â	Â
4 	Release front floor covering (2) at front passenger side in area of center console (3) (arrows D). Â	Â  Do not release and/or remove front passenger seat and door sill.	Â <a href="#">AR68.80-P-0008FR</a>
	<b>Install</b>	Â	Â
5 Â	Retrofit luggage net (1) with brackets. Â	Â  Graduated drill	<a href="#">AZ68.50-P-0007-02EW</a> <a href="#">Fig. 27</a>
6 Â	Install remaining parts. <b>Document retrofitted equipment using vehicle documentation (VeDoc)</b>	Â	Â
7	Attach note "Front-passenger side footwell luggage net retrofitted as per AZ68.50-P-0007FR" under field organization texts to DG 68.	Â	Â

**Fig. 27: Identifying Graduated Drill (450 589 00 28 00)**

Courtesy of MERCEDES-BENZ USA

**PARTS ORDERING NOTE**

Part no.	Designation	Quantity
KG 98 (see EPC)	Parts kit front-passenger side footwell luggage net	1

**TORQUE SPECIFICATIONS**

**TIGHTENING TORQUES: PASSENGER CARS: INTERIOR EQUIPMENT - BA68.00-Z-9999AZ**

**MODEL all**

Â	Interior equipment - General	MODEL 251	BA68.00-P-1000-01A
Â	Interior equipment - General	MODEL 199	BA68.00-P-1000-01C
Â	Instrument panel	MODEL 163	BA68.10-P-1000-01A
Â	Instrument panel	Model 164.1/8, 166, 167, 292	BA68.10-P-1000-01B
Â	Instrument panel	MODEL 251	BA68.10-P-1000-01C
Â	Instrument panel	Model 223, 232, 295, 297	BA68.10-P-1000-01E

Â	Cross member below dashboard	MODEL 209.3/4	BA68.10-P-1000-02A
Â	Cross member below dashboard	MODEL 216, 221	BA68.10-P-1000-02C
Â	Cross member below dashboard	MODEL 117, 118, 156, 176, 177, 204, 207, 212, 217, 218, 222, 223, 231, 232, 242, 243, 246, 247, 295, 297...	BA68.10-P-1000-02D
Â	Cross member below dashboard	MODEL 190, 197	BA68.10-P-1000-02E
Â	Cross member below dashboard	Model 205, 206, 253, 293	BA68.10-P-1000-02F
Â	Cross member below dashboard	Model 213, 238, 257, 290	<b>BA68.10-P-1000-02G</b>
Â	Center console	MODEL 168	BA68.20-P-1000-01A
Â	Center console	MODEL 240	BA68.20-P-1000-01B
Â	Center console	MODEL 199	BA68.20-P-1000-01D
Â	Center console	MODEL 164.1/8	BA68.20-P-1000-01E
Â	Center console	MODEL 251	BA68.20-P-1000-01F
Â	Rear center armrest	MODEL 240	BA68.20-P-1000-02A
Â	Trim, ornamental frame	MODEL 203, 230	BA68.30-P-1000-01A
Â	Trim, ornamental frame	MODEL 219	BA68.30-P-1000-01C
Â	Trim, ornamental frame	MODEL 216, 221	BA68.30-P-1000-01D
Â	Trim, ornamental frame	Model 217, 222, 223	BA68.30-P-1000-01E
Â	Trim, ornamental frame	MODEL 190.3	BA68.30-P-1000-01F
Â	Trim, ornamental frame	Model 167	BA68.30-P-1000-01G
Â	Trim, ornamental frame	Model 243, 247	BA68.30-P-1000-01H
Â	Trim, ornamental frame	Model 295, 297	BA68.30-P-1000-01I
Â	Trim, ornamental frame	Model 232	BA68.30-P-1000-01J
Â	Curtains/sun shades	MODEL 202, 203, 209.3/4	BA68.50-P-1000-01A
Â	Curtains/sun shades	MODEL 210, 215, 220	BA68.50-P-1000-01B
Â	Luggage nets	MODEL 163, 203.2	BA68.50-P-1000-02A BA68.50-P-



Â	Luggage nets	MODEL 217	1000-02B
Â	Cargo retainers	MODEL 203, 209	BA68.50-P-1000-03A
Â	Cargo retainers	MODEL 211, 230	BA68.50-P-1000-03B
Â	Cargo retainers	MODEL 168.006/007/008/009/031/032/033/035/109/131/132/133/135	BA68.50-P-1000-03C
Â	Cargo retainers	MODEL 169, 245	BA68.50-P-1000-03E
Â	Cargo retainers	Model 164.1/8, 166, 167, 292	BA68.50-P-1000-03F
Â	Cargo retainers	MODEL 251	BA68.50-P-1000-03G
Â	Cargo retainers	MODEL 199	BA68.50-P-1000-03H
Â	Cargo retainers	Model 118, 177, 204, 205, 206, 212, 218, 223, 231, 232, 238, 243, 247, 253, 293	BA68.50-P-1000-03I
Â	Cargo retainers	Model 213, 257, 290, 297	<b>BA68.50-P-1000-03J</b>
Â	Load compartment cover	MODEL 211.2	BA68.50-P-1000-04A
Â	Load compartment cover	MODEL 204.2/9	BA68.50-P-1000-04B
Â	Handles	MODEL 163	BA68.70-P-1000-02A
Â	Partition wall	MODEL 171, 208.4, 209.4, 220.875/878 MODEL 221 with CODE Z19 (S600 Pullman Guard state sedan)	BA68.74-P-1000-01A
Â	Partition wall	MODEL 240...	BA68.74-P-1000-01B
Â	Partition wall	MODEL 172	BA68.74-P-1000-01C
Â	Partition wall	MODEL 190, 197	BA68.74-P-1000-01D
Â	Partition wall	MODEL 166 with CODE Z05 (B5 armoring on special protection version)	BA68.74-P-1000-01E
Â	Partition wall	Model 290	BA68.74-P-1000-01G
Â	Loading floor	MODEL 211.2	BA68.80-P-1000-01A
Â	Loading floor	MODEL 169, 245	BA68.80-P-1000-01B
Â	Load compartment floor	Model 206	BA68.80-P-1000-02A

**CROSS MEMBER BELOW DASHBOARD - BA68.10-P-1000-02G**

Model 213, 238, 257, 290

**CROSSMEMBER BELOW INSTRUMENT PANEL**

Number	Designation	Model	Model
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			<b>213</b>	<b>238</b>
BA68.10-P-1001-02G	Screw/bolt, crossmember to A-pillar	Nm	25	25
BA68.10-P-1002-02G	Screw/bolt, crossmember to firewall below windshield	Clearance hole	Nm	25
		Blind hole	Nm	30
BA68.10-P-1003-02G	Screw/bolt, crossmember strut to side of transmission tunnel	Nm	30	25

#### CROSSMEMBER BELOW INSTRUMENT PANEL

Number	Designation		Model 257	Model 290
BA68.10-P-1001-02G	Screw/bolt, crossmember to A-pillar	Nm	25	25
BA68.10-P-1002-02G	Screw/bolt, crossmember to firewall below windshield	Clearance hole	Nm	25
		Blind hole	Nm	-
BA68.10-P-1003-02G	Screw/bolt, crossmember strut to side of transmission tunnel	Nm	30	30

#### CARGO RETAINERS - BA68.50-P-1000-03J

Model 213, 257, 290, 297

#### CARGO RETAINERS

Number	Designation		Model 213.0	Model 213.1
BA68.50-P-1001-03J	Bolt, cargo retainers/tie-down eye to body	Nm	24	24
BA68.50-P-1002-03J	Bolt, bracket for trunk comfort box to rear shelf	Nm	4	4

#### CARGO RETAINERS

Number	Designation		Model 213.2	Model 257
BA68.50-P-1001-03J	Bolt, cargo retainers/tie-down eye to body	Nm	24	24
BA68.50-P-1002-03J	Bolt, bracket for trunk comfort box to rear shelf	Nm	-	-

#### CARGO RETAINERS

Number	Designation		Model 290	Model 297
BA68.50-P-1001-03J	Bolt, cargo retainers/tie-down eye to body	Nm	30	32
BA68.50-P-1002-03J	Bolt, bracket for trunk comfort box to rear shelf	Nm	-	-

#### WIRING DIAGRAMS

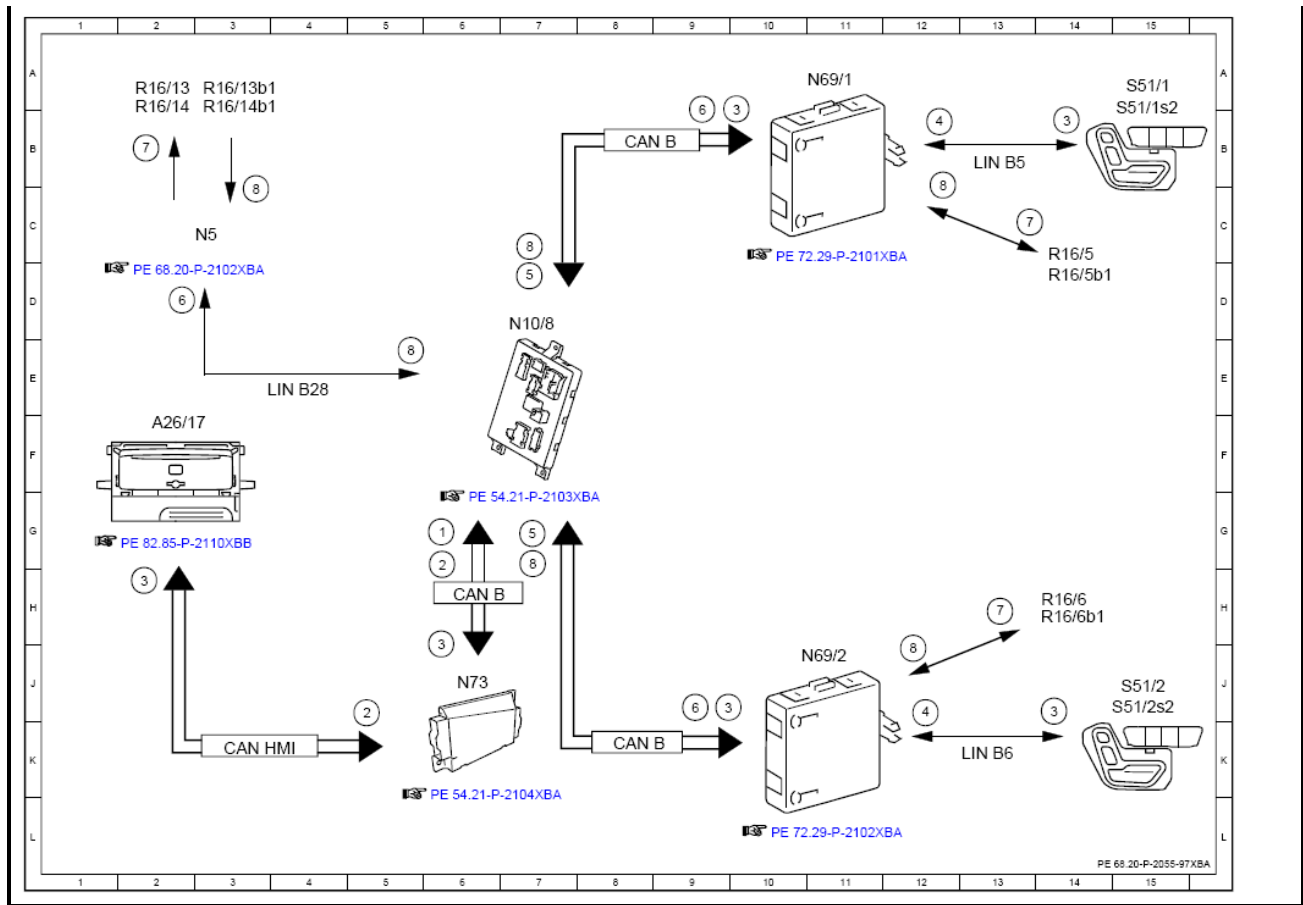
#### ELECTRICAL FUNCTION SCHEMATIC FOR ARMREST HEATER

Electrical Function Schematic For Armrest Heater - PE68.20-P-2055-97XBA

Model 257, 290 up to model year 2021 with code 906 (Front armrest heater)

Code:	Designation:	Position:
1	Circuit 15, status	6G
2	Armrest heater, request	5J
2	Armrest heater, request	6H

3	Armrest heater, status	2H
3	Armrest heater, status	7H
3	Armrest heater, status	10A
3	Armrest heater, status	9J
3	Armrest heater, status	14B
3	Armrest heater, status	14J
4	Seat climate control switch group, status	14B
4	Seat climate control switch group, status	12J
5	Seat heater, request	7G
5	Seat heater, request	7D
6	Armrest heating element, request	9J
6	Armrest heating element, request	9B
6	Armrest heating element, request	2D
7	Armrest heating element, actuation	13C
7	Armrest heating element, actuation	2B
7	Armrest heating element, actuation	13H
8	Heating element temperature sensor, signal	12C
8	Heating element temperature sensor, signal	7C
8	Heating element temperature sensor, signal	7H
8	Heating element temperature sensor, signal	12J
8	Heating element temperature sensor, signal	5E
8	Heating element temperature sensor, signal	3C
A26/17	Head unit	2F
CAN B	Interior CAN	8K
CAN B	Interior CAN	6H
CAN B	Interior CAN	8B
CAN HMI	User interface CAN	3K
LIN B28	Heater LIN	4E
LIN B5	Left front door LIN	13B
LIN B6	Right front door LIN	13K
N10/8	Rear SAM control unit	7D
N5	Armrest heater control unit	3C
N69/1	Left front door control unit	11A
N69/2	Right front door control unit	11J
N73	Electronic ignition switch control unit	6J
R16/13	Left front center console armrest heating element	2A
R16/13b1	Left front center console armrest heating element temperature sensor	3A
R16/14	Right front center console armrest heating element	2B
R16/14b1	Right front center console armrest heating element temperature sensor	3B
R16/5	Left front door armrest heating element	14C
R16/5b1	Left front door armrest heating element temperature sensor	14D
R16/6	Right front door armrest heating element	14H
R16/6b1	Right front door armrest heating element temperature sensor	14H
S51/1	Left front seat climate control switch group	15A
S51/1s2	Left front seat heater switch	15B
S51/2	Right front seat climate control switch group	15J
S51/2s2	Right front seat heater switch	15J



**Electrical Function Schematic For Armrest Heater - PE68.20-P-2055XBA**

Model 257, 290 up to model year 2021 with code 906 (Front armrest heater)

Â	Electrical function schematic for armrest heater	Â	<a href="#">PE68.20-P-2055-97XBA</a>
Â	Use of electrical function schematics	Â	<a href="#">OV00.01-P-1901-09A</a>

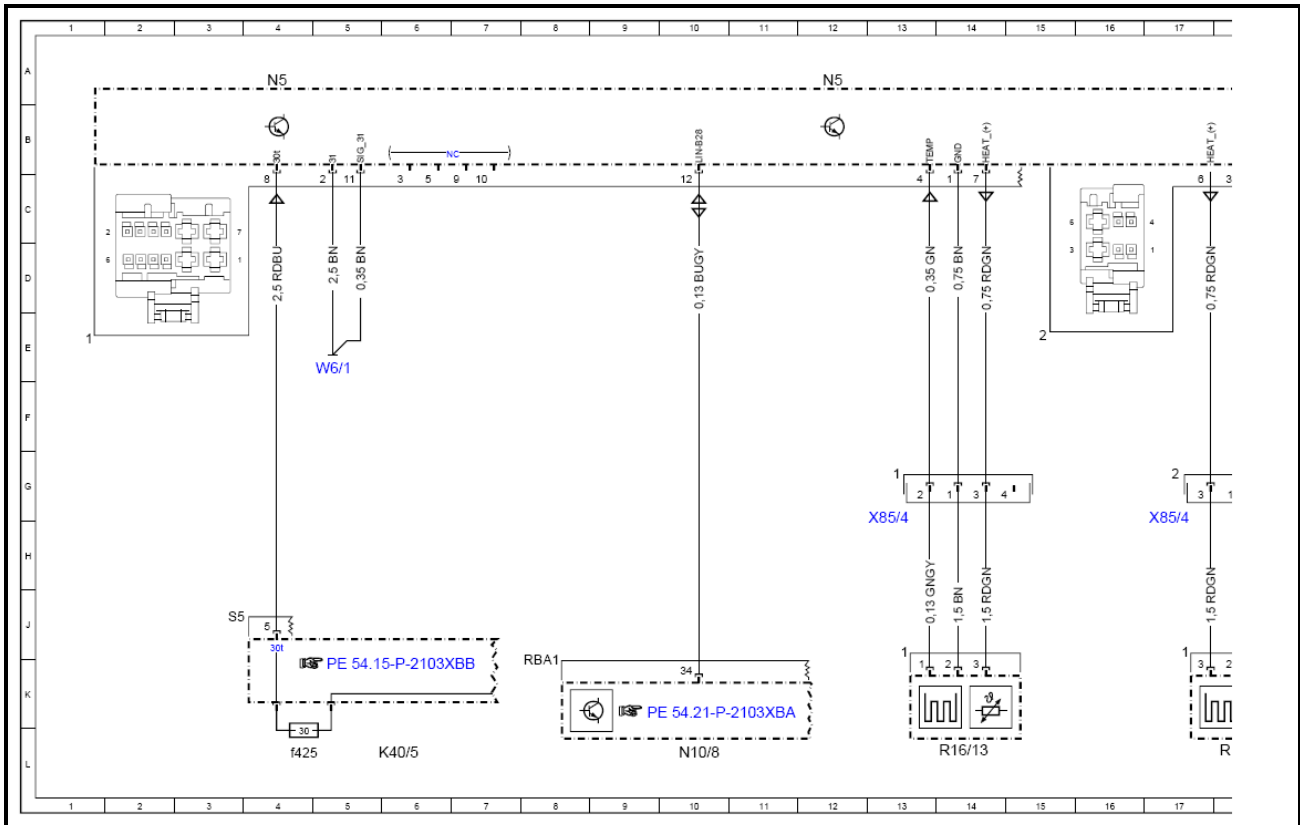
**WIRING DIAGRAM FOR ARMREST HEATER CONTROL UNIT**

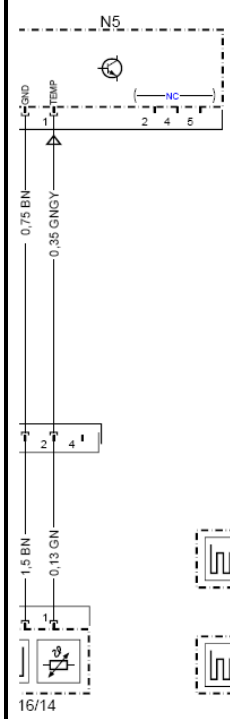
**Wiring Diagram For Armrest Heater Control Unit - PE68.20-P-2102-97XBA**



Model 257, 290 up to model year 2021 with code 906 (Front armrest heater) Control unit N5

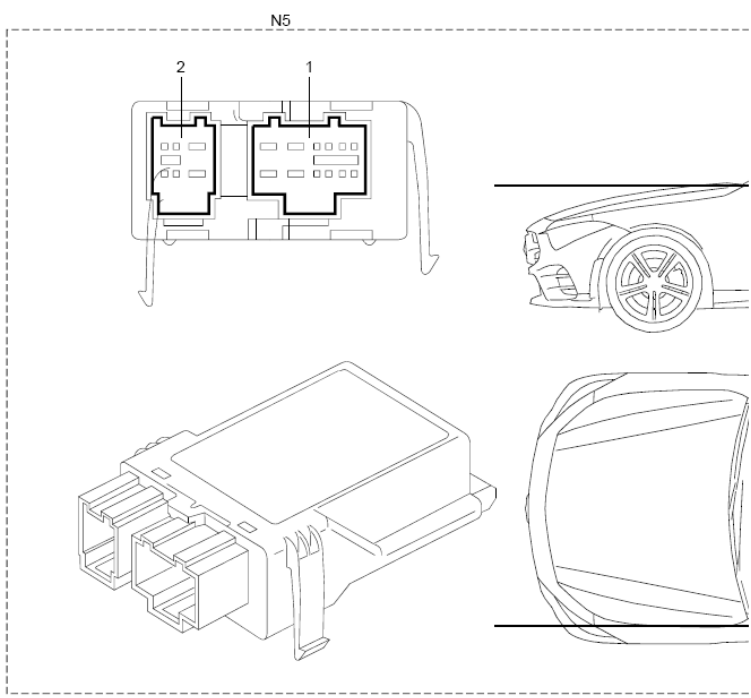
Code:	Designation:	Position:
A0	Use of wiring diagrams	48L
K40/5	Rear fuse and relay module	6L
K40/5f425	Fuse 425	4L
N10/8	Rear SAM control unit	10L
N5	Armrest heater control unit	4A
N5	Armrest heater control unit	12A
N5	Armrest heater control unit	28A
N5	Armrest heater control unit	40A
N5	Armrest heater control unit	19A
R16/13	Left front center console armrest heating element	14L
R16/14	Right front center console armrest heating element	18L

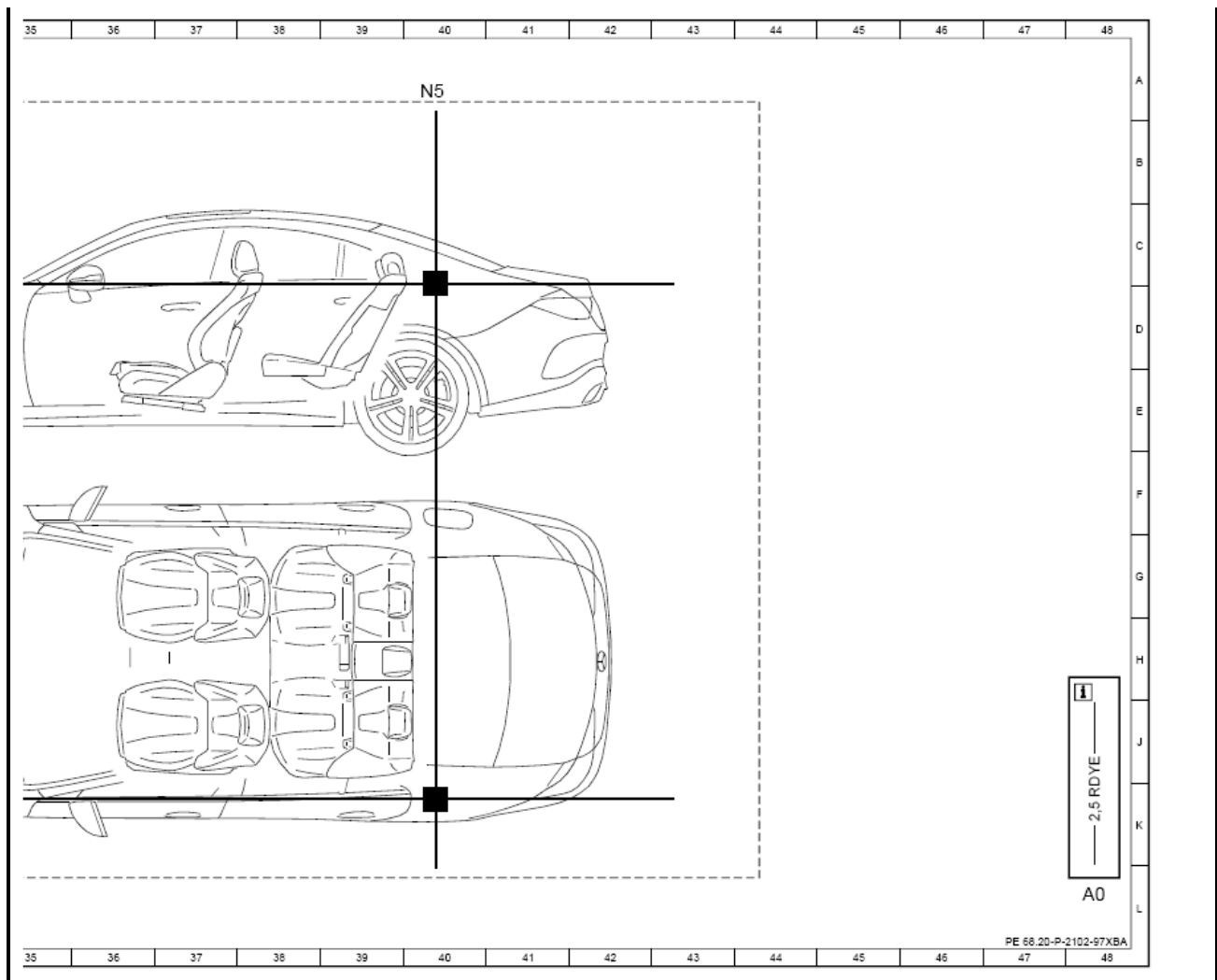
R16/5	Left front door armrest heating element	22J
R16/6	Right front door armrest heating element	22L
W6/1	Left taillamp trunk ground point	5E
X85/4	Front center console armrest heating element electrical connector	13H
X85/4	Front center console armrest heating element electrical connector	17H





-  PE 72.29-P-2101XBA  
R16/5
-  PE 72.29-P-2102XBA  
R16/6

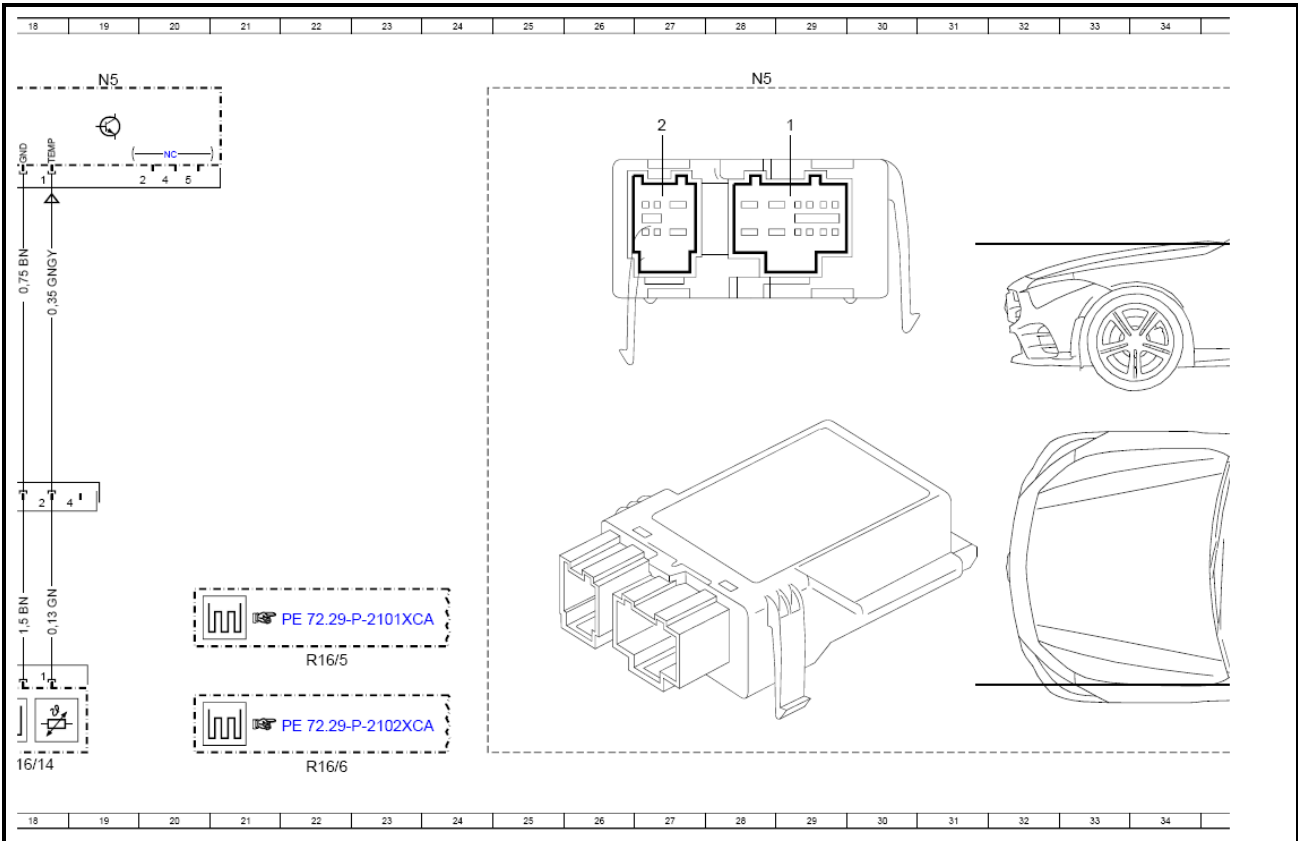
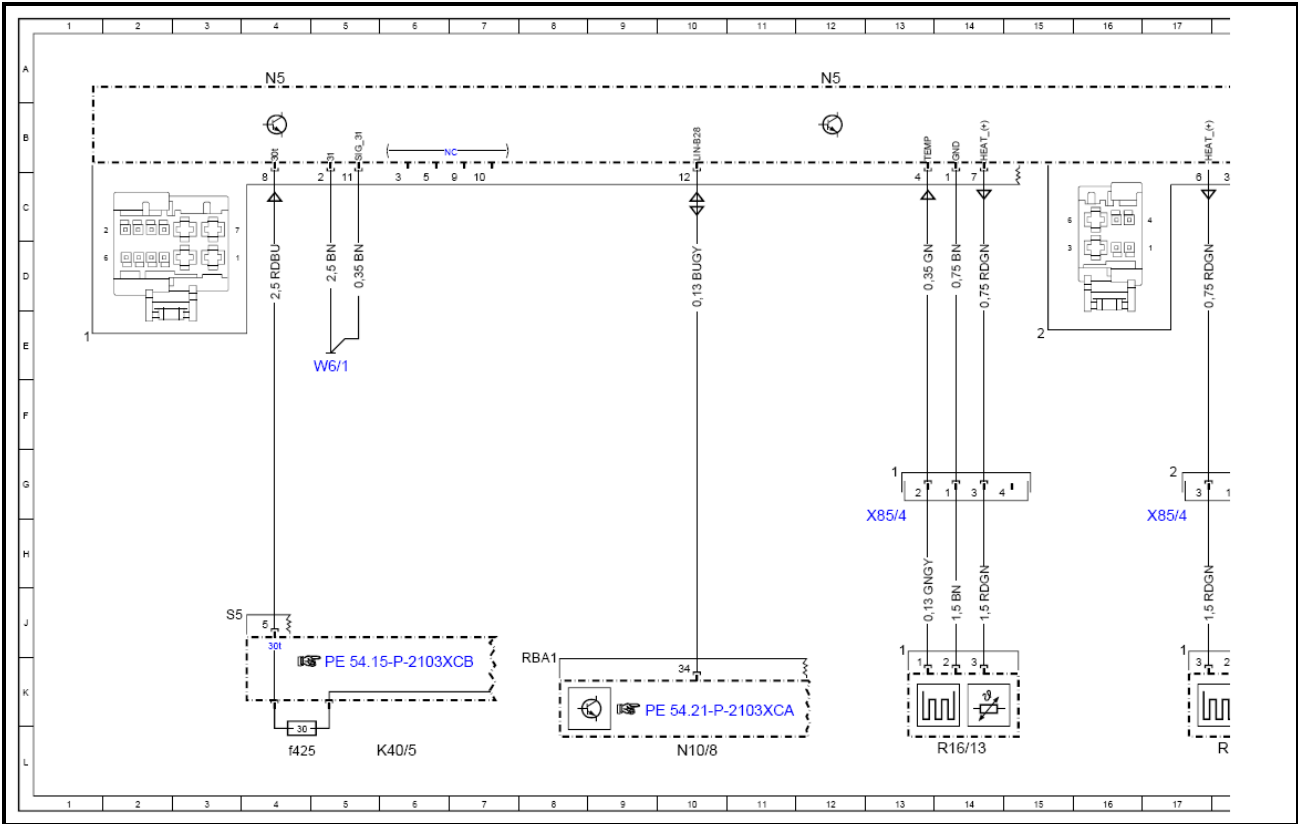




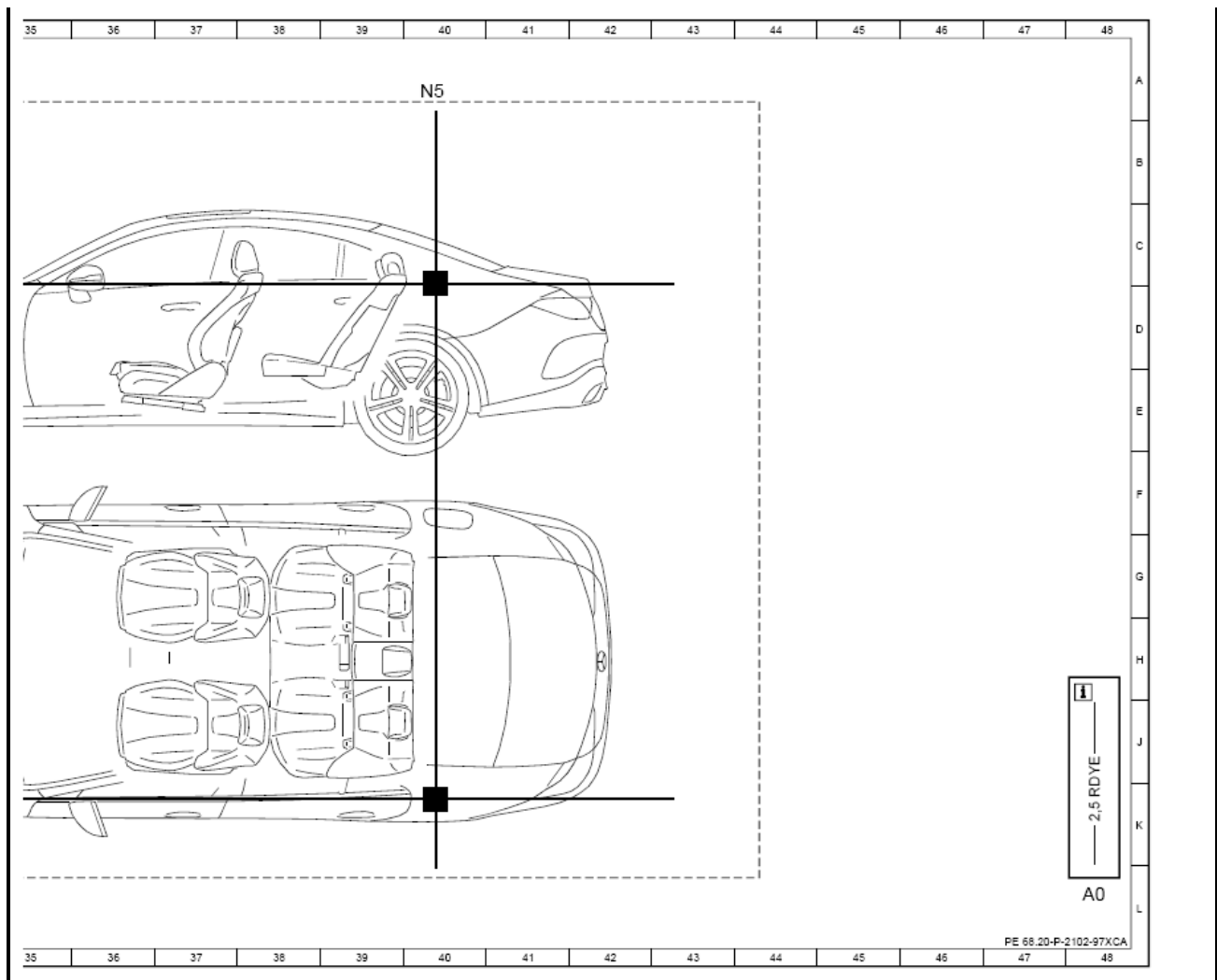
**Wiring Diagram For Armrest Heater Control Unit - PE68.20-P-2102-97XCA**

**Model 257, 290 as of model year 2021 with code 906 (Front armrest heater) Control unit N5**

<b>Code:</b>	<b>Designation:</b>	<b>Position:</b>
A0	Use of wiring diagrams	48L
K40/5	Rear fuse and relay module	6L
K40/5f425	Fuse 425	4L
N10/8	Rear SAM control unit	10L
N5	Armrest heater control unit	4A
N5	Armrest heater control unit	12A
N5	Armrest heater control unit	28A
N5	Armrest heater control unit	40A
N5	Armrest heater control unit	19A
R16/13	Left front center console armrest heating element	14L
R16/14	Right front center console armrest heating element	18L
R16/5	Left front door armrest heating element	22J
R16/6	Right front door armrest heating element	22L
W6/1	Left taillamp trunk ground point	5E
X85/4	Front center console armrest heating element electrical connector	13H







**Wiring Diagram For Armrest Heater Control Unit - PE68.20-P-2102XBA**

**Model 257, 290 up to model year 2021 with code 906 (Front armrest heater) Control unit N5**

Â	Wiring diagram for armrest heater control unit	Â	<a href="#">PE68.20-P-2102-97XBA</a>
Â	Abbreviations of signal and circuit designations for wiring diagrams	Â	<a href="#">OV00.01-P-1001-28XBA</a>
Â	Use of wiring diagrams	Â	<a href="#">OV00.01-P-1901-03XBA</a>
Â	Search aid for all electrical components	Â	<a href="#">OV00.01-P-1909XBA</a>
Â	Arrangement of electrical connectors	Â	<a href="#">GF00.19-P-1005XBA</a>
Â	Location of ground points	Â	<a href="#">GF00.19-P-2002XBA</a>
Â	Location of end sleeves	Â	<a href="#">GF00.19-P-3005XBA</a>
Â	Fuse and relay box, as-built configuration	Â	<a href="#">GF54.15-P-0800FR</a>

**Wiring Diagram For Armrest Heater Control Unit - PE68.20-P-2102XCA**

**Model 257, 290 as of model year 2021 with code 906 (Front armrest heater) Control unit N5**

Â	Wiring diagram for armrest heater control unit	Â	<a href="#">PE68.20-P-2102-97XCA</a>
Â	Abbreviations of signal and circuit designations for wiring diagrams	Â	<a href="#">OV00.01-P-1001-28XBA</a>
Â	Use of wiring diagrams	Â	<a href="#">OV00.01-P-1901-03XBA</a>

Â	Search aid for all electrical components	Â	<a href="#">OV00.01-P-1909XCA</a>
Â	Arrangement of electrical connectors	Â	<a href="#">GF00.19-P-1005XBA</a>
Â	Location of ground points	Â	<a href="#">GF00.19-P-2002XBA</a>
Â	Location of end sleeves	Â	<a href="#">GF00.19-P-3005XBA</a>
Â	Fuse and relay box, as-built configuration	Â	<a href="#">GF54.15-P-0800FR</a>

## FUNCTION SCHEMATIC FOR ACTUATING ARMREST HEATING

### Function Schematic For Actuating Armrest Heating - PE68.20-P-2501-97A

**Model 167 with code 906 (Front armrest heater) Model 167 with code 907 (Rear armrest heater)**

**Model 213, 238, 257, 290 as of model year 2021 with code 906 (Front armrest heater)**

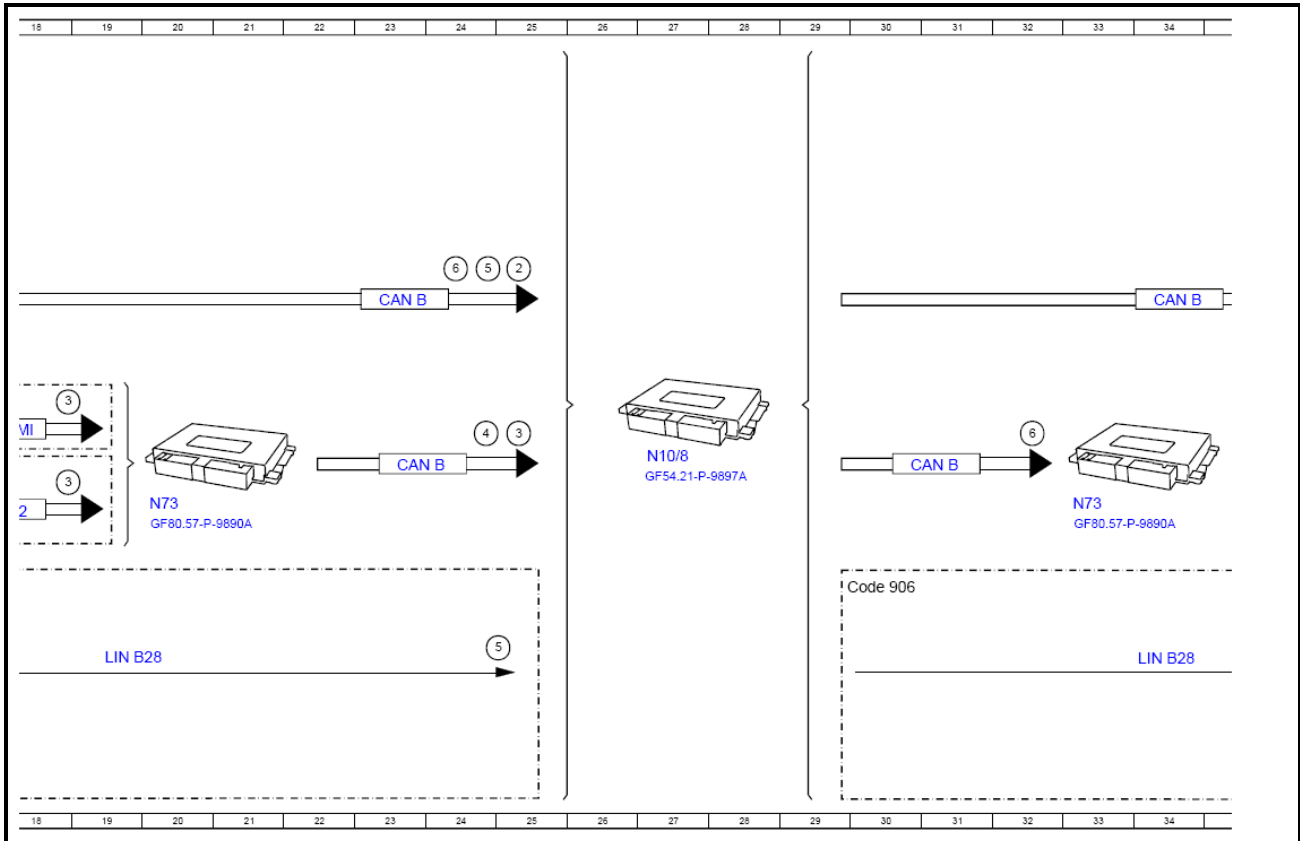
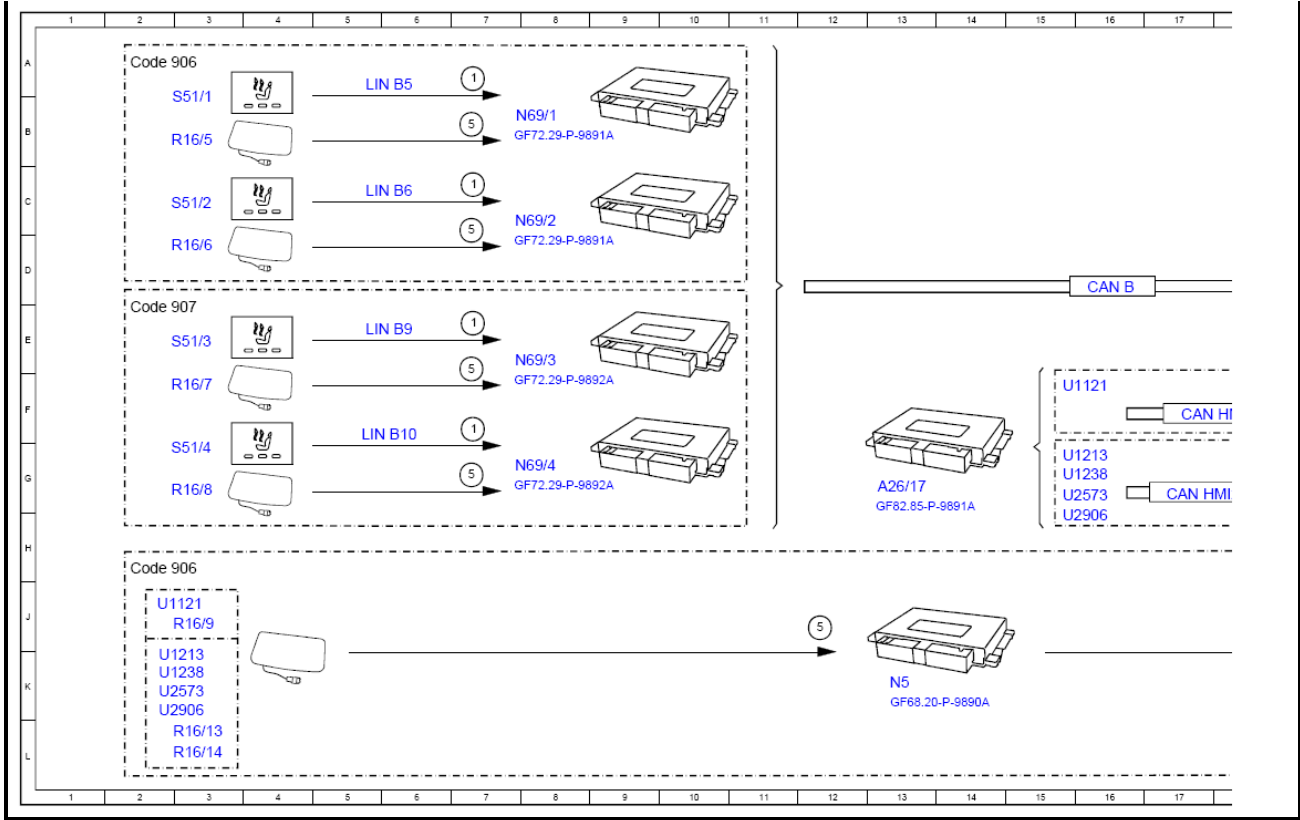
**Model 213 as of model year 2021 with code 907 (Rear armrest heater)**

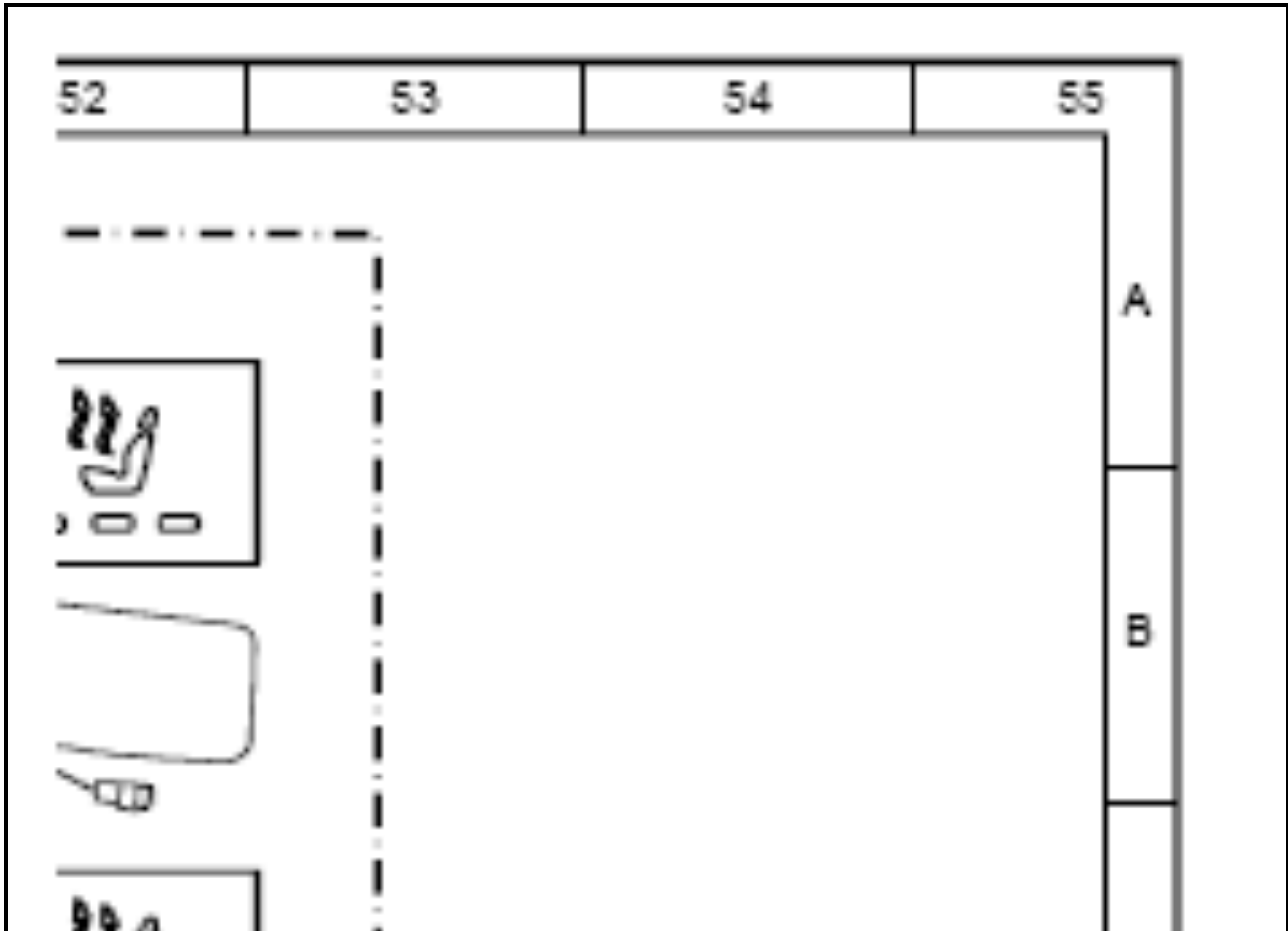
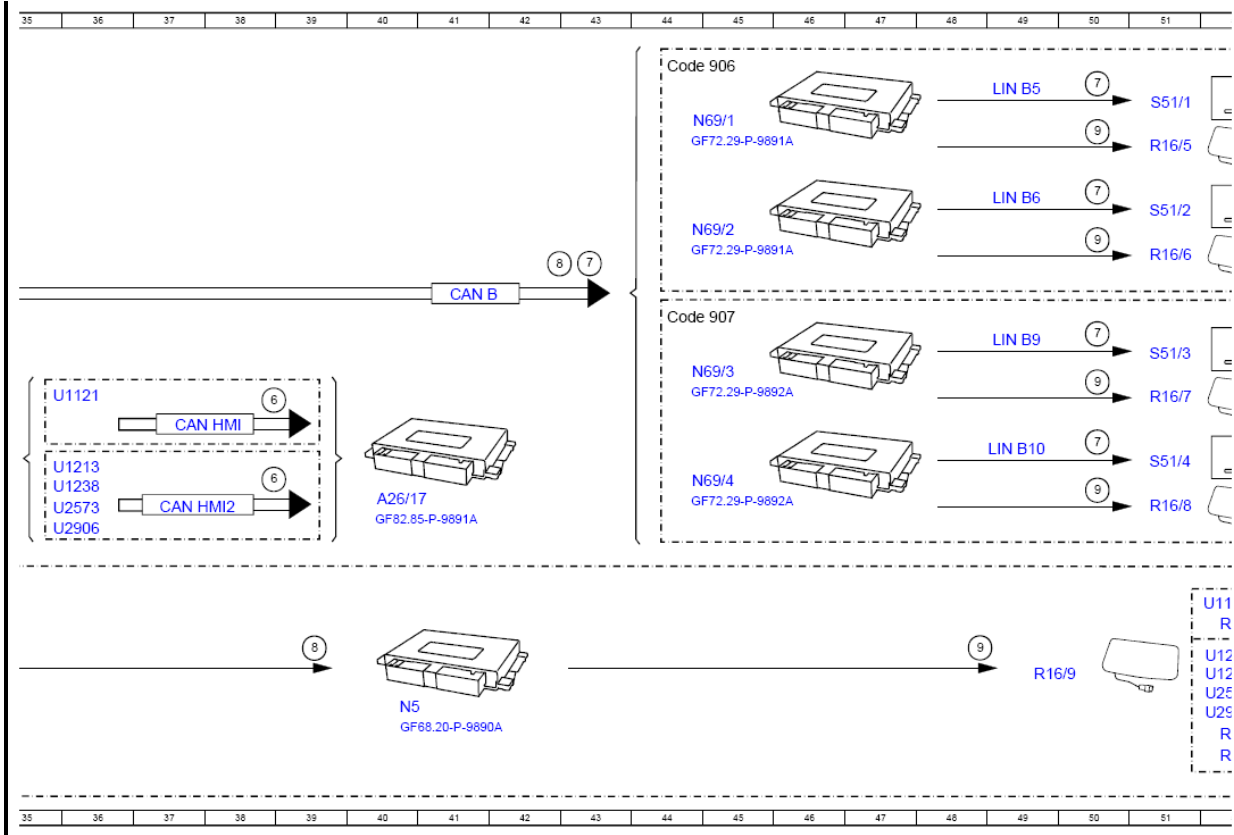
<b>Code:</b>	<b>Designation:</b>	<b>Position:</b>
1	Seat climate control switch group, status	7A
1	Seat climate control switch group, status	7C
1	Seat climate control switch group, status	7E
1	Seat climate control switch group, status	7F
2	Seat heater, request	26D
3	Armrest heater, request	25F
3	Armrest heater, request	18G
3	Armrest heater, request	18F
4	Circuit 15, status	24F
5	Heating element temperature sensor, signal	24D
5	Heating element temperature sensor, signal	7B
5	Heating element temperature sensor, signal	12J
5	Heating element temperature sensor, signal	25J
5	Heating element temperature sensor, signal	7C
5	Heating element temperature sensor, signal	7E
5	Heating element temperature sensor, signal	7G
6	Armrest heater, status	24D
6	Armrest heater, status	32F
6	Armrest heater, status	38F
6	Armrest heater, status	39G
7	Seat heater, status	43D
7	Seat heater, status	50A
7	Seat heater, status	50C
7	Seat heater, status	50E
7	Seat heater, status	50F
8	Armrest heater heating element, request	42D
8	Armrest heater heating element, request	39J
9	Armrest heater heating element, actuation	48J
9	Armrest heater heating element, actuation	50B
9	Armrest heater heating element, actuation	50C
9	Armrest heater heating element, actuation	50E
9	Armrest heater heating element, actuation	50G
A26/17	Head unit	13G

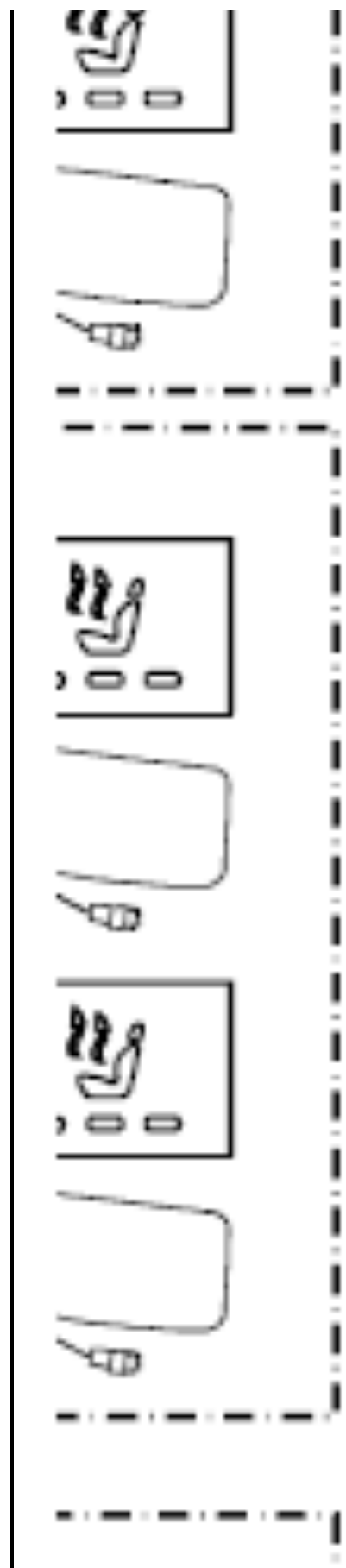
A26/17	Head unit	40G
CAN B	Interior CAN	23D
CAN B	Interior CAN	23G
CAN B	Interior CAN	31G
CAN B	Interior CAN	16D
CAN B	Interior CAN	41D
CAN B	Interior CAN	34D
CAN HMI	User interface CAN	17F
CAN HMI	User interface CAN	37F
CAN HMI2	User interface CAN 2	17G
CAN HMI2	User interface CAN 2	37G
Code 906	Front armrest heater	2A
Code 906	Front armrest heater	2H
Code 906	Front armrest heater	44A
Code 906	Front armrest heater	29H
Code 907	Rear armrest heater	2E
Code 907	Rear armrest heater	44E
LIN B10	Right rear door LIN	5F
LIN B10	Right rear door LIN	49F
LIN B28	Heater LIN	19J
LIN B28	Heater LIN	34J
LIN B5	Left front door LIN	5A
LIN B5	Left front door LIN	49A
LIN B6	Right front door LIN	5C
LIN B6	Right front door LIN	49C
LIN B9	Left rear door LIN	5E
LIN B9	Left rear door LIN	49E
N10/8	Rear SAM control unit	27G
N5	Armrest heater control unit	13K
N5	Armrest heater control unit	40K
N69/1	Left front door control unit	8B
N69/1	Left front door control unit	45B
N69/2	Right front door control unit	8C
N69/2	Right front door control unit	45C
N69/3	Left rear door control unit	8E
N69/3	Left rear door control unit	45E
N69/4	Right rear door control unit	8G
N69/4	Right rear door control unit	45G
N73	Electronic ignition switch control unit	20G
N73	Electronic ignition switch control unit	33G
R16/13	Left front center console armrest heating element	2L
R16/13	Left front center console armrest heating element	52K
R16/14	Right front center console armrest heating element	2L
R16/14	Right front center console armrest heating element	52L
R16/5	Left front seat armrest heating element	3B
R16/5	Left front seat armrest heating element	51B
R16/6	Right front seat armrest heating element	3D

R16/6	Right front seat armrest heating element	51D
R16/7	Left rear seat armrest heating element	3F
R16/7	Left rear seat armrest heating element	51F
R16/8	Right rear seat armrest heating element	3G
R16/8	Right rear seat armrest heating element	51G
R16/9	Front center console armrest heating element	49K
R16/9	Front center console armrest heating element	2J
R16/9	Front center console armrest heating element	52J
S51/1	Left front seat climate control switch group	3B
S51/1	Left front seat climate control switch group	51B
S51/2	Right front seat climate control switch group	3C
S51/2	Right front seat climate control switch group	51C
S51/3	Left rear seat climate control switch group	3E
S51/3	Left rear seat climate control switch group	51E
S51/4	Right rear seat climate control switch group	3G
S51/4	Right rear seat climate control switch group	51G
U1121	Valid for model 167	15F
U1121	Valid for model 167	2J
U1121	Valid for model 167	35F
U1121	Valid for model 167	52J
U1213	Valid for model 213	15G
U1213	Valid for model 213	2K
U1213	Valid for model 213	35G
U1213	Valid for model 213	52J
U1238	Valid for model 238	15G
U1238	Valid for model 238	2K
U1238	Valid for model 238	35G
U1238	Valid for model 238	52K
U2573	Valid for model 257.3	15G
U2573	Valid for model 257.3	2K
U2573	Valid for model 257.3	35G
U2573	Valid for model 257.3	52K
U2906	Valid for model 290. 6	15H
U2906	Valid for model 290. 6	2K
U2906	Valid for model 290. 6	35H
U2906	Valid for model 290. 6	52K

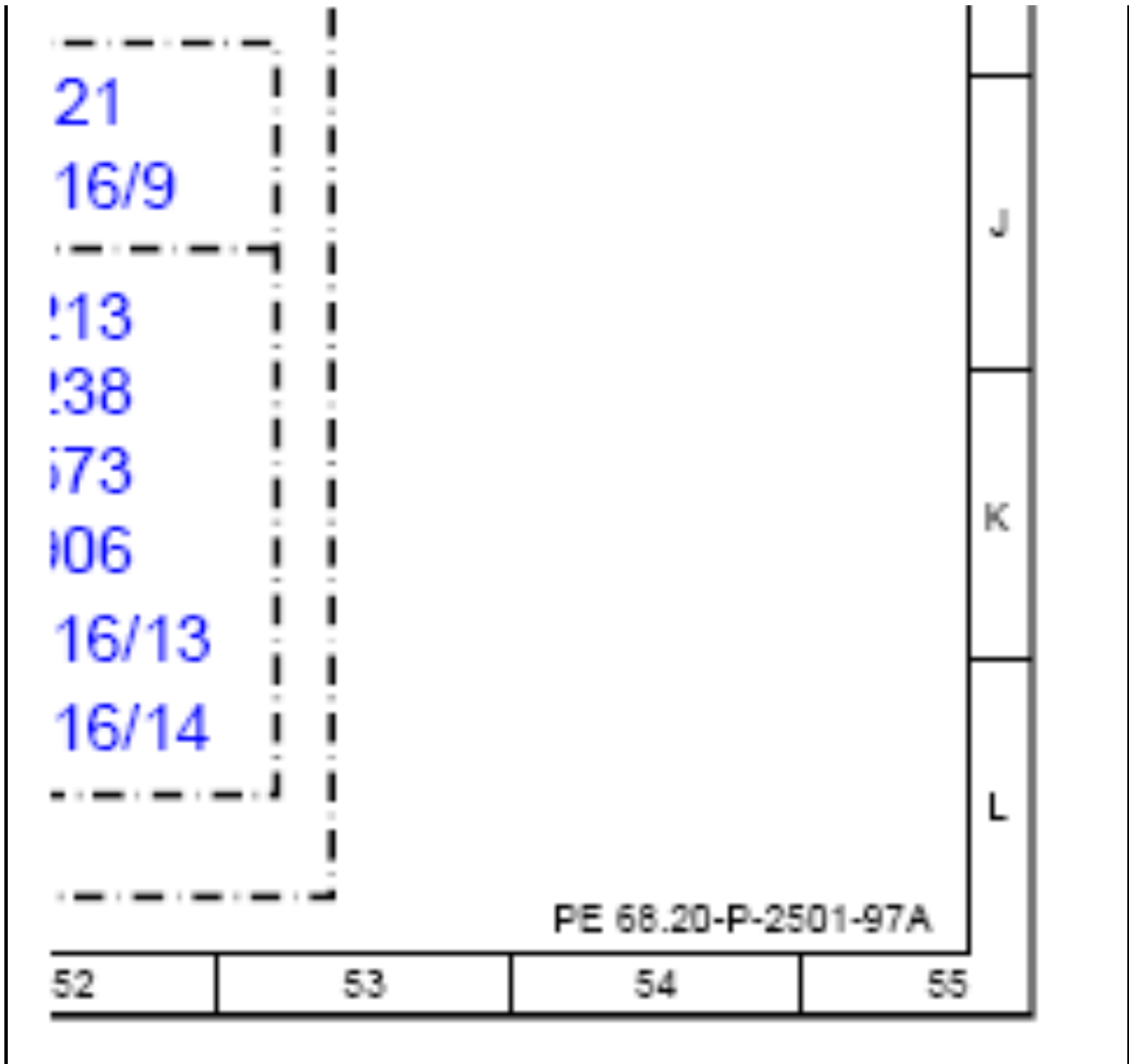








I	G	n	m	D	C
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**Function Schematic For Actuating Armrest Heating - PE68.20-P-2501A**

**Model 167 with code 906 (Front armrest heater)**

**Model 167 with code 907 (Rear armrest heater)**

**Model 213, 238, 257, 290 as of model year 2021 with code 906 (Front armrest heater)**

**Model 213 as of model year 2021 with code 907 (Rear armrest heater)**

Â	Function schematic for actuating armrest heating	Â	<a href="#">PE68.20-P-2501-97A</a>
Â	Use of electrical function schematics	Â	<a href="#">OV00.01-P-1901-09A</a>

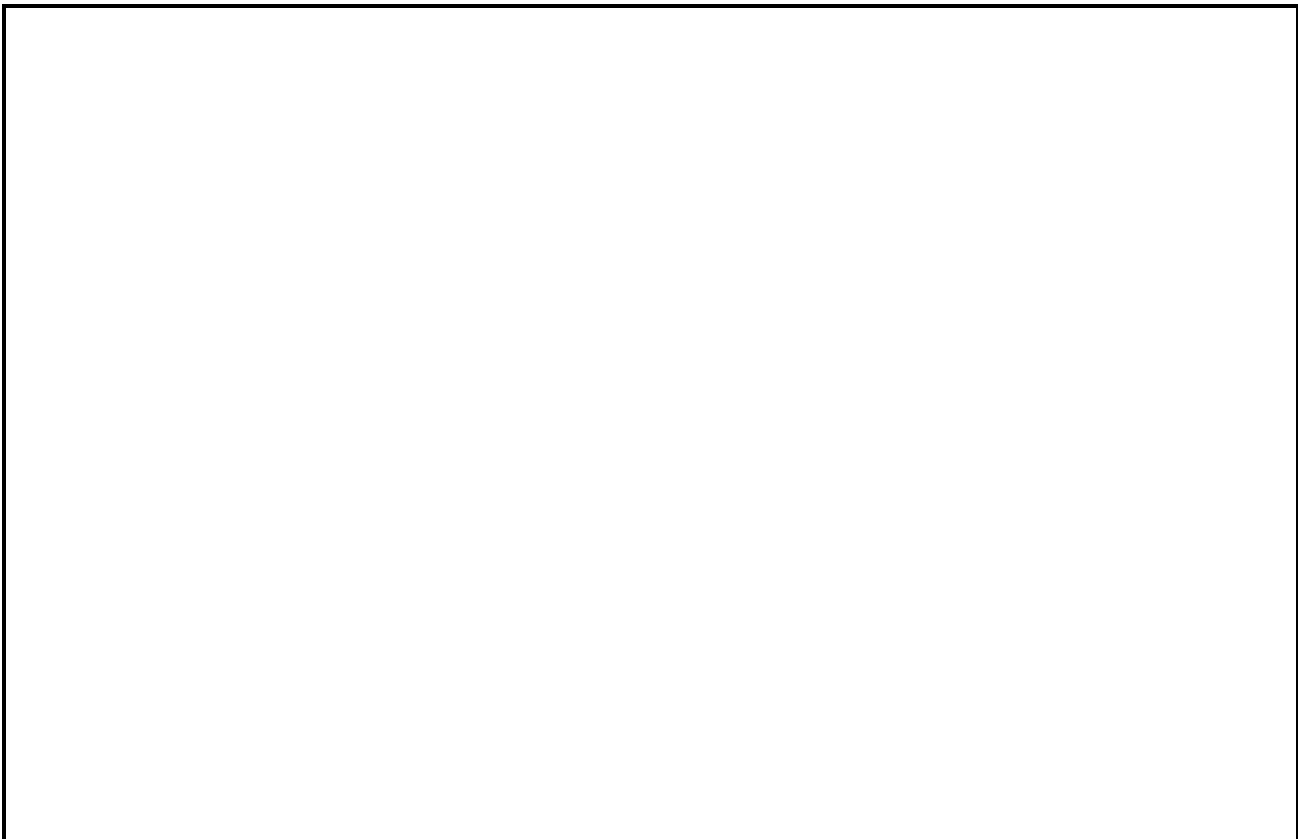
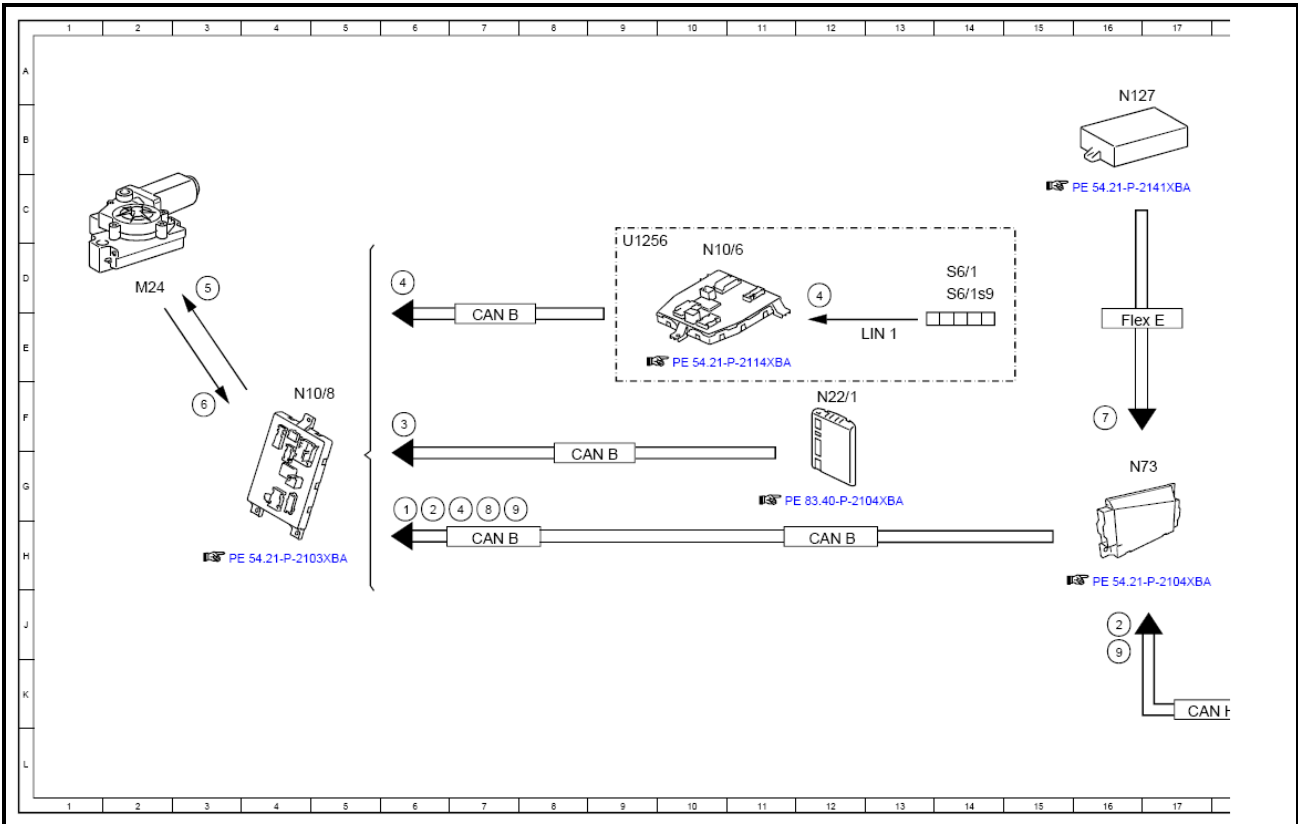
**ELECTRICAL FUNCTION SCHEMATIC FOR ROLLER SUN BLIND**

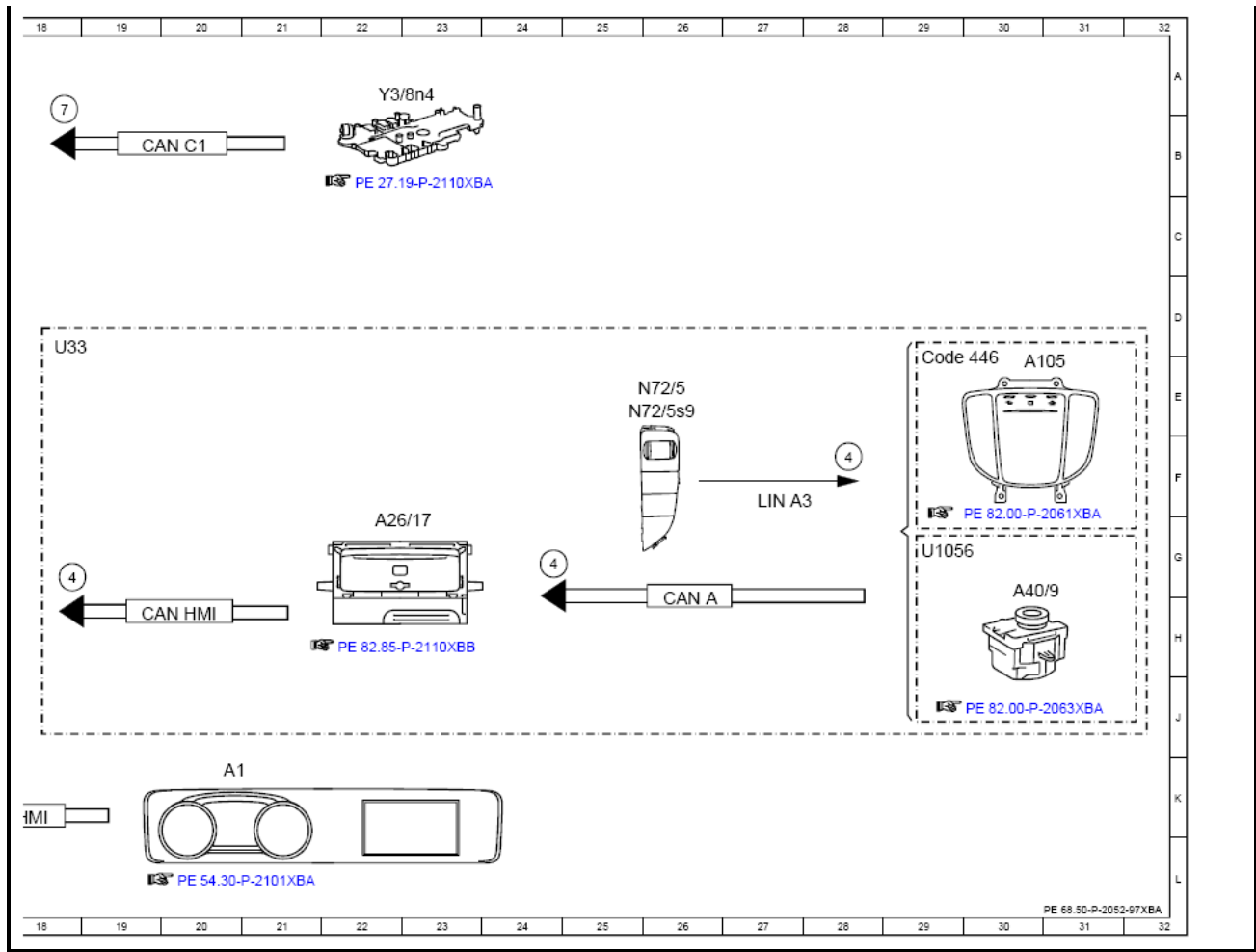
**Electrical Function Schematic For Roller Sun Blind - PE68.50-P-2052-97XBA**



**Model 257 up to model year 2021 with code 540 (Electric roller blind for rear window)**

<b>Code:</b>	<b>Designation:</b>	<b>Position:</b>
1	Circuit 15, status	6G
2	Displayed outside temperature, signal	16J
2	Displayed outside temperature, signal	6G
3	Interior temperature, signal	6F
4	ESP®/ASR OFF warning lamp, status	24G
4	ESP®/ASR OFF warning lamp, status	18G
4	ESP®/ASR OFF warning lamp, status	7G
4	ESP®/ASR OFF warning lamp, status	28F
4	ESP®/ASR OFF warning lamp, status	6D
4	ESP®/ASR OFF warning lamp, status	12D
5	Rear window roller sun blind motor, actuation	3D
6	Rear window roller sun blind motor Hall sensor, signal	3F
7	Selector lever position, status	18A
7	Selector lever position, status	16F
8	Reverse gear, status	7G
9	Vehicle speed, signal	7G
9	Vehicle speed, signal	16J
A1	Instrument cluster	20K
A105	Touchpad	30E
A26/17	Head unit	22G
A40/9	Audio/COMAND control panel	30G
CAN A	Telematics CAN	26H
CAN B	Interior CAN	8G
CAN B	Interior CAN	12H
CAN B	Interior CAN	7E
CAN B	Interior CAN	7H
CAN C1	Drivetrain CAN	19B
CAN HMI	User interface CAN	20H
CAN HMI	User interface CAN	17K
Code 446	Touchpad only	29E
Flex E	Chassis FlexRay	16E
LIN 1	Instrument panel LIN	13E
LIN A3	LCP LIN	27F
M24	Rear window roller sun blind motor	2D
N10/6	Front SAM control unit	10D
N10/8	Rear SAM control unit	4F
N127	Drivetrain control unit	16A
N22/1	Climate control control unit	12F
N72/5	Right lower control panel	26E
N72/5s9	Rear window roller sun blind button	26E
N73	Electronic ignition switch control unit	16G
S6/1	Driver-side instrument panel button group	14D
S6/1s9	Rear window roller sun blind button	14D
U1056	Valid except code 446 (Touchpad only)	29G
U1256	Valid for engine 256	9D





**Electrical Function Schematic For Roller Sun Blind - PE68.50-P-2052XBA**

Model 257 up to model year 2021 with code 540 (Electric roller blind for rear window)

Â	Electrical function schematic for roller sun blind	Â	<a href="#">PE68.50-P-2052-97XBA</a>
Â	Use of electrical function schematics	Â	<a href="#">OV00.01-P-1901-09A</a>

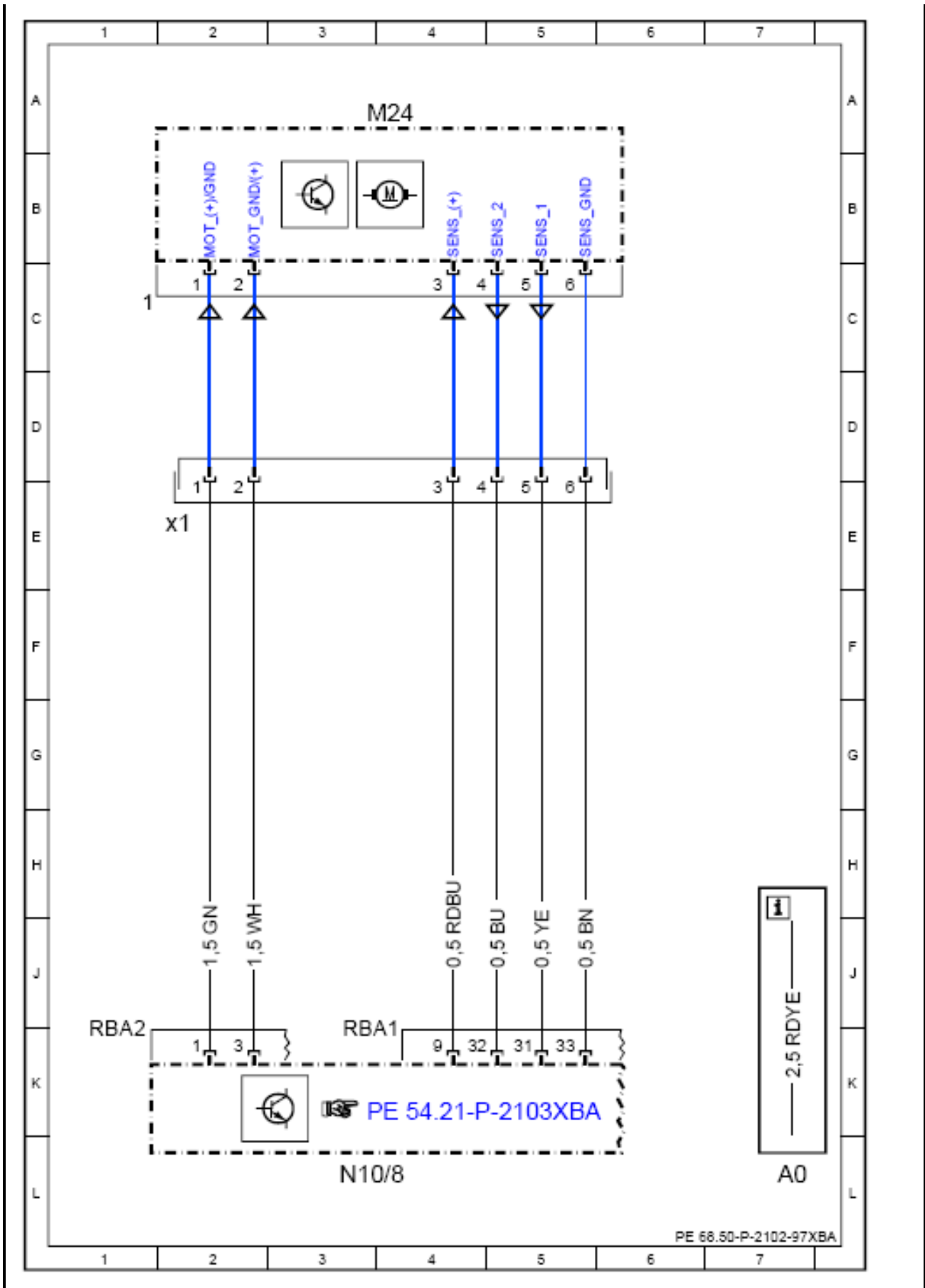
**ROLLER SUN BLIND WIRING DIAGRAM**

**Roller Sun Blind Wiring Diagram - PE68.50-P-2102-97XBA**

Model 257 up to model year 2021 with code 540 (Electric roller blind for rear window) Motor M24

Code:	Designation:	Position:
A0	Use of wiring diagrams	7L
M24	Rear window roller sun blind motor	4A
M24x1	Rear window roller sun blind motor electrical connector	2E
N10/8	Rear SAM control unit	3L



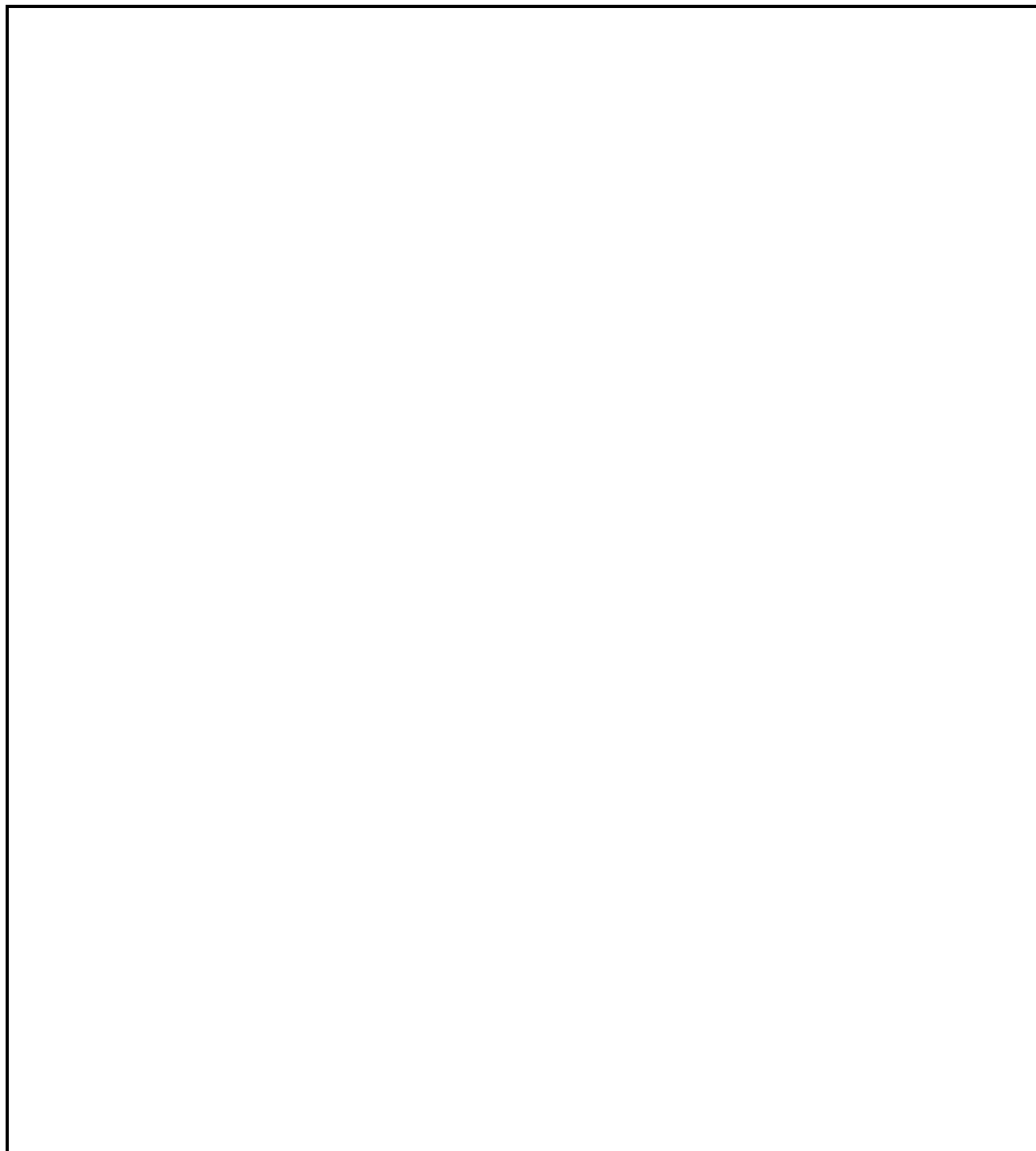


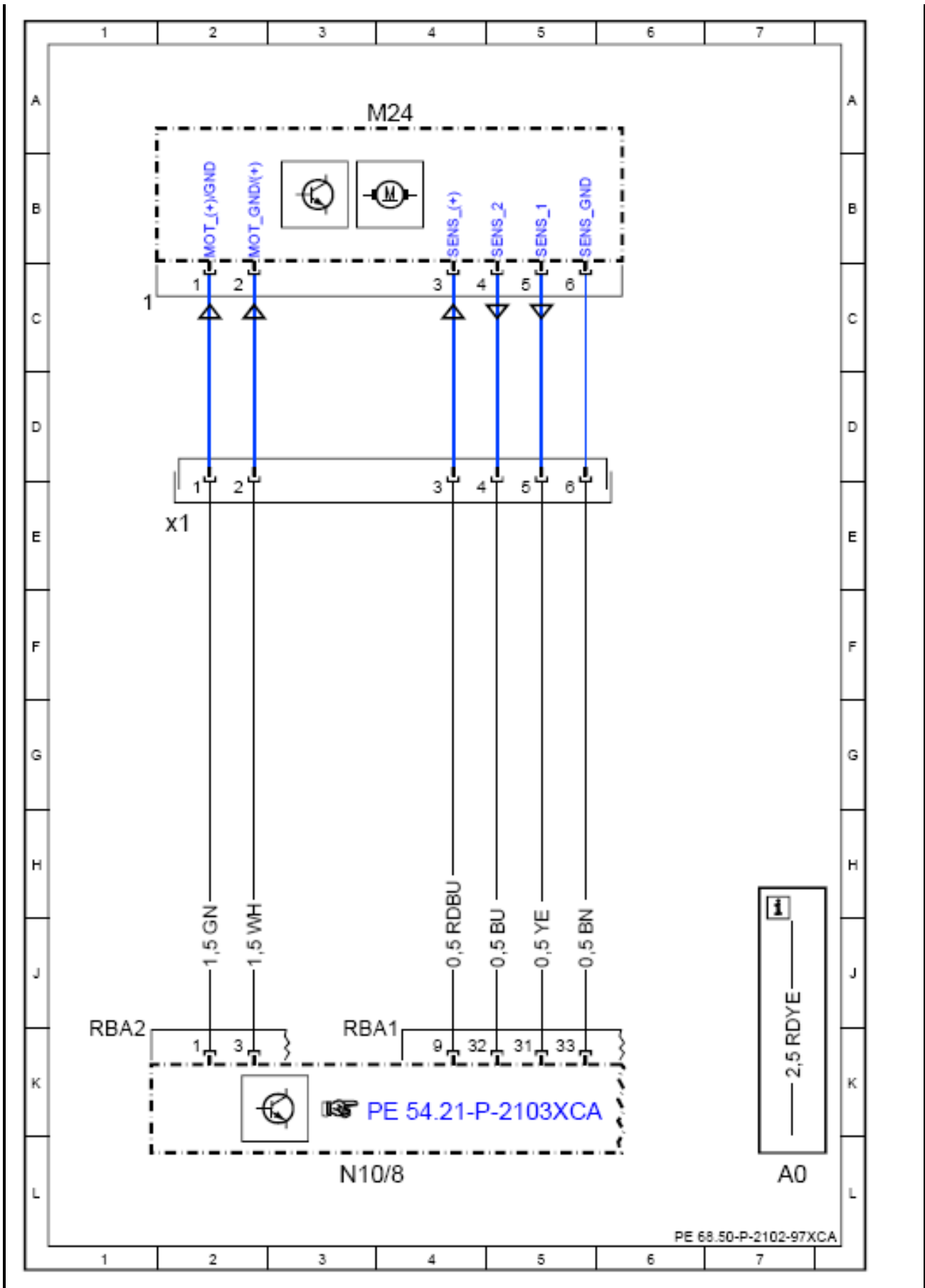
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**Roller Sun Blind Wiring Diagram - PE68.50-P-2102-97XCA**

**Model 257 as of model year 2021 with code 540 (Electric roller blind for rear window) Motor M24**

<b>Code:</b>	<b>Designation:</b>	<b>Position:</b>
A0	Use of wiring diagrams	7L
M24	Rear window roller sun blind motor	4A
M24x1	Rear window roller sun blind motor electrical connector	2E
N10/8	Rear SAM control unit	3L





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## Roller Sun Blind Wiring Diagram - PE68.50-P-2102XBA

Model 257 up to model year 2021 with code 540 (Electric roller blind for rear window)

### MotorM24

Â	Roller sun blind wiring diagram	Â	<a href="#">PE68.50-P-2102-97XBA</a>
Â	Abbreviations of signal and circuit designations for wiring diagrams	Â	<a href="#">OV00.01-P-1001-28XBA</a>
Â	Use of wiring diagrams	Â	<a href="#">OV00.01-P-1901-03XBA</a>
Â	Search aid for all electrical components	Â	<a href="#">OV00.01-P-1909XBA</a>
Â	Arrangement of electrical connectors	Â	<a href="#">GF00.19-P-1005XBA</a>
Â	Location of ground points	Â	<a href="#">GF00.19-P-2002XBA</a>
Â	Location of end sleeves	Â	<a href="#">GF00.19-P-3005XBA</a>
Â	Fuse and relay box, as-built configuration	Â	<a href="#">GF54.15-P-0800FR</a>

## Roller Sun Blind Wiring Diagram - PE68.50-P-2102XCA

Model 257 as of model year 2021 with code 540 (Electric roller blind for rear window)

### MotorM24

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## ☰ SPECIAL TOOLS

### 000 589 95 63 00 DISASSEMBLY TOOL - WS68.00-P-0002B

Model all (4xWD, CAR)

Model all (Light transporter)

Use in FG

01/05/07/08/09/14/15/18/20/22/25/26/27/28/29/30/31/32/33/35/42/43/46/47/49/54/61/62/67/68/72/77/80/82/83/88/91/94/Set  
B

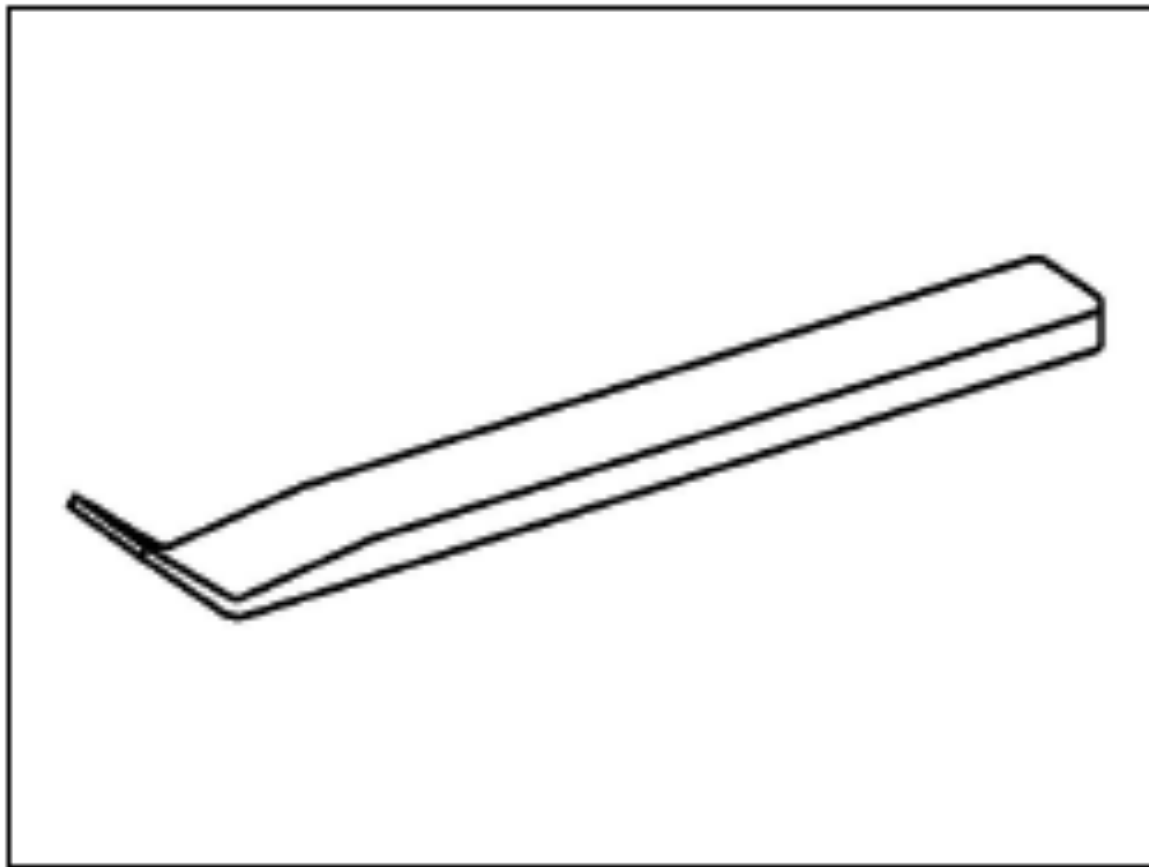
**Purpose:**

Disassembly tool for removal of plastic clips.

**Procurement information:**

This workshop equipment can be ordered directly through the regular replacement part ordering process at the GLC/LC.

--



000 589 95 83 00

**452 589 01 63 00 CLIP REMOVER - WS68.00-P-0012K**

**Model all (4xWD, CAR, Heavy transporter, Light transporter, smart)**

**Use in FG 01/08/09/15/20/22/26/27/28/29/31/41/42/43/47/49/54/60/61/62/67/68/72/77/80/82/83/88/91/set K**

**Purpose:**

Clip remover for unclipping strips, trim parts, covers, line ducts, wiring harnesses, tail lamps, roof spoilers as well as for releasing retaining clips and expansion rivets.

**Model 451.390/490:**

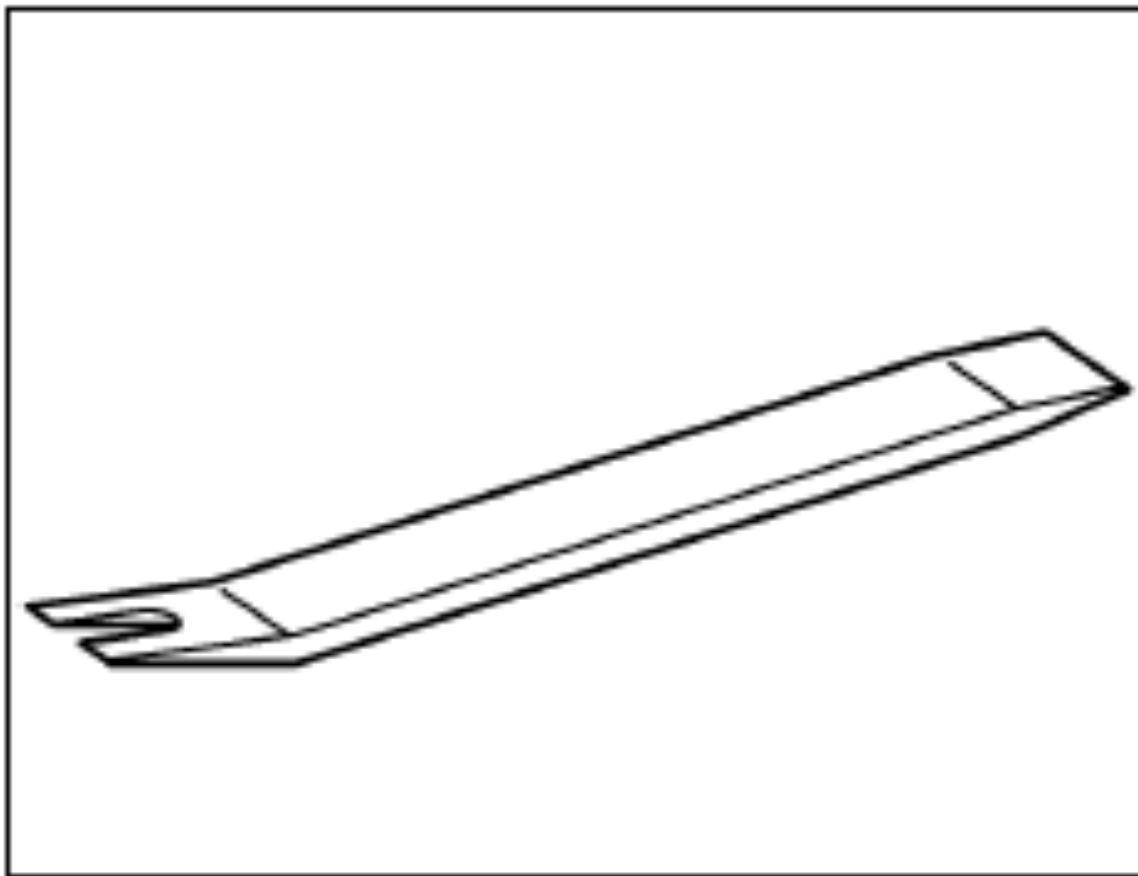
Clip remover for removing the vacuum sensors from the brake booster.

**Procurement information:**

This workshop equipment can be ordered directly through the regular replacement part ordering process at the GLC/LC.







452 589 01 63 00

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