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## ACCESSORIES & BODY, CAB

### Detachable Body Components - 257 Chassis

#### GENERAL INFORMATION

#### GENERAL NOTES: PASSENGER CARS: DETACHABLE BODY COMPONENTS, EXTERIOR FLAPS - AH88.00-Z-9999AZ

#### MODEL all

Â	General information on repair to detachable plastic components	MODEL 124, 129, 140, 168, 202, 208, 210, 414	AH88.00-P-1000-01A
Â	General notes on filling detachable body components	MODEL 450.418	AH88.00-P-1000-02CR
Â	General information on the impact absorber	Model all (CAR)	<a href="#">AH88.20-P-1000-01A</a>
Â	Notes on electric trunk lid emergency release	MODEL 129, 202, 203, 208, 210, 215, 220...	AH88.50-P-0001-01A
Â	General notes on repairing tubular frame	Model 171.4, 172.4, 231	AH88.50-P-0002-01V

#### GENERAL INFORMATION ON THE IMPACT ABSORBER - AH88.20-P-1000-01A

#### Model all (CAR)

#### General

A visual inspection of the impact absorber is to be performed on the removed bumper.

Damage can cause changes in the functions and property of the impact absorber and the pedestrian protection sensor.

The crash requirements can then no longer be assured.

#### Impact absorber with damage

If the impact absorber exhibits pressure marks or cracks, it must always be replaced.

On vehicles with code U60 Pedestrian protection, always replace the pedestrian protection sensor.

## Impact absorber without damage

If the impact absorber does not have any pressure marks or cracks, then on vehicles with code U60 Pedestrian protection, visual inspection of the pedestrian protection sensor must be carried out in installed condition.

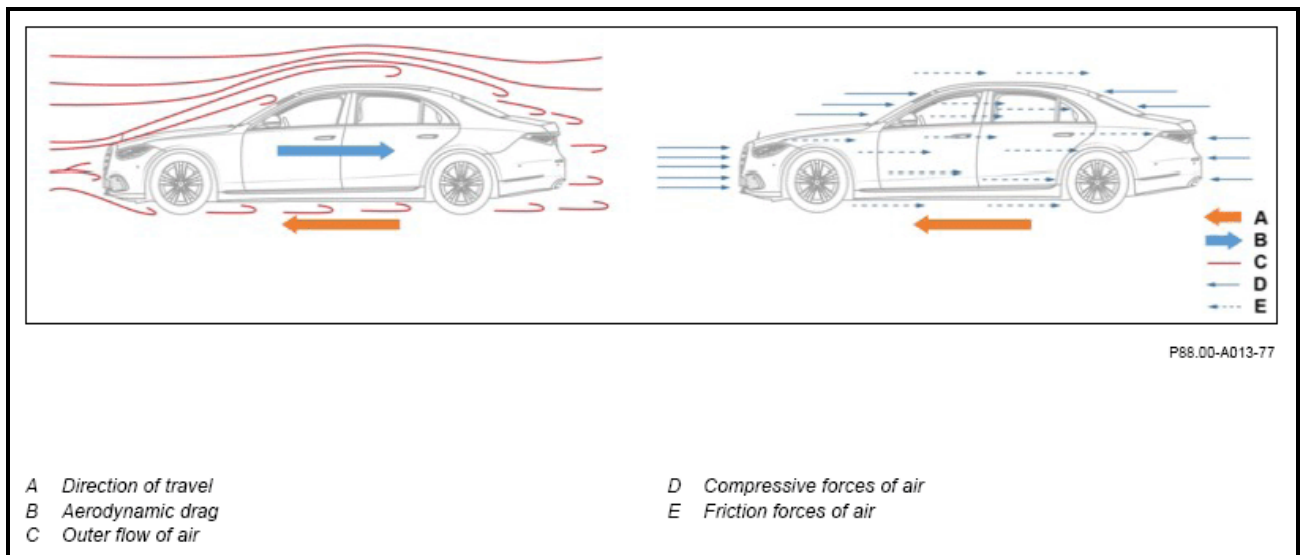
If the pedestrian protection sensor shows signs of damage of any kind (cracks, holes, kinks etc.), it must always be replaced.

## BASIC KNOWLEDGE

### AERODYNAMICS, BASIC FUNCTION - GF88.00-P-9900A

#### Model all (CAR)

#### Example illustration of stagnation streamlines and aerodynamic drag



## Overview

This document contains information on:

- **General**
- **Function**
  - Front spoiler
  - Rear spoiler
  - Wheel spoiler
  - Side spoiler
  - Underbody spoiler

## General

In aerodynamics, the best possible streamlining keeps the vehicle's aerodynamic drag as low as possible; optimizing driving characteristics with respect to the resulting air flow. Vehicle design, "flow-controlling" detachable parts, as well as the consumption of combustion engines or the range of electric vehicles are also directly relevant in this connection. The resistance is made up of the cross-sectional area of a body that opposes the wind, and the drag coefficient. This

value describes how easily the wind can flow over a body and is between 0.05 (for the best shaping) and 1 (for a cube). The less resistance the vehicle offers, the more energy is saved.

The portion of aerodynamic drag in the overall vehicle resistance increases quadratically as vehicle speed increases. As a result, the aerodynamic drag is responsible for significantly more than half of energy consumption during longer trips at higher speeds. The individual design elements of the body, as well as the additional front, rear, and side spoilers have a significant influence on aerodynamics.

The drag coefficient can be reduced by various measures, for example on the diffuser, the front and rear apron, and the installation of running boards on the longitudinal members. These measures reduce fuel consumption in combustion engines and increases the range of electric vehicles on account of the electrical energy available. In electric vehicles, the fully closed and smooth underbody also improves air flow under the vehicle. Furthermore, the large air volumes required by combustion engines are not needed. With the active air regulation system, the slats in the radiator grille can be completely closed as required, meaning the air slides forward and downward on the vehicle.

## **Function**

The installation of spoilers and wings on the vehicle leads to a reduction in lift force, thus increasing the contact pressure of the vehicle on the road. The airstream is routed around the vehicle in such a way that the air pressure under it drops. As a result, handling quality at high speeds, cornering stability or braking distance, are improved.

The air is directed over the vehicle, from the radiator grille, among other things, via the hood, windshield, and roof. There is also an influence on the air flow below the vehicle.

The main task of the spoiler is to direct the oncoming air to the top or to the sides. This increases the contact pressure on the vehicle. On the one hand, this makes for improved handling quality, on the other, it lowers fuel consumption. The effect described only applies at higher speeds.

The following types of spoilers can be distinguished:

- **Front spoiler**
- **Rear spoiler**
- **Wheel spoiler**
- **Side spoiler**
- **Underbody spoiler**

### **Front spoiler**

A front spoiler reduces lift forces on the front axle. A front spoiler can also reduce the aerodynamic drag of the vehicle as well as cooling the air supply for the engine and braking processes.

### **Rear spoiler**

A rear spoiler can be used to lower the lift forces at the rear axle.

### **Wheel spoiler**

Wheel spoilers are installed in front either the front or rear wheels and ensure improved flow on the wheels.

### **Side spoiler**

Side spoilers are attached to the vehicle sides to protect the doors from soiling as much as possible.

## Underbody spoiler

The underbody spoiler is attached to the underbody of the front carriage. The air is directed through the underbody spoiler around the vehicle, thus reducing the air pressure under the vehicle. This improves the road adhesion of the vehicle.

Â	<b>Additional basic functions</b>	Â	Â
Â	Rear spoiler, basic function	Â	<a href="#">GF88.50-P-2010A</a>
Â	Underbody spoiler, basic function	Â	<a href="#">GF88.30-P-1010A</a>

### UNDERBODY SPOILER, BASIC FUNCTION - GF88.30-P-1010A

#### Model all (CAR)

#### Overview

This document contains information on:

- **General**
- **Function requirements**
- **Function**
  - **Function sequence for manual adjustment**
  - **Visual feedback signal**

#### General

The actively variable aerodynamics profile is located on the underbody of the front section and, together with the rear wing, optimizes the aerodynamics of the vehicle. The air is directed around the vehicle, leading to a reduction in pressure under the vehicle. As a result, road adhesion is significantly improved.

Depending on the drive program selected and the speed being traveled, the actively variable aerodynamics profile extends and retracts automatically.

#### Function requirements

- Terminal 15 ON
- For manual adjustment: Transmission in park position

#### Function

Provided that the vehicle is traveling within a predefined vehicle speed range, the underbody spoiler is extended and retracted automatically by the AMG gateway control unit. This vehicle speed range varies depending on the drive program.

#### Function sequence for manual adjustment

When the vehicle is at a standstill and the transmission is in the park position, the underbody spoiler can be extended or retracted using the underbody spoiler button on the steering wheel or via the multimedia system. By pressing the button, the actively variable aerodynamics profile extends or retracts completely. If the button is pressed again during retraction, the spoiler is directly extended again and vice versa.

An underbody spoiler extended during vehicle standstill automatically retracts when the vehicle drives off.

## Visual feedback signal

The visual feedback is provided via the steering wheel control elements and the instrument cluster. The following messages can be displayed here:

- During manual retraction of the rear spoiler: "Spoiler retracting manually" (appears in combination with a pictogram of the spoiler)
- Blue: Aerodynamics profile retracted
- Red: Aerodynamics profile extended in different positions
- Gray: Aerodynamics profile extending or retracting

A mechanical blockage is detected by the underbody spoiler motor unit current sensor. In the event of a malfunction, the actuation for this ignition cycle is canceled. A corresponding fault message appears and a fault code is stored in the fault memory.

## REAR SPOILER, BASIC FUNCTION - GF88.50-P-2010A

### Model all (CAR)

#### Overview

This document contains information on:

- **General**
- **Function requirements**
- **Function**
  - **Function sequence for manual adjustment**
  - **Visual feedback signal**

#### General

The rear spoiler is used to adjust the contact pressure of the vehicle in various vehicle speed ranges. The rear spoiler is moved via the rear spoiler motor. It extends and retracts to different positions depending on the drive program selected and the speed being traveled. It influences handling characteristics in the event of rapid cornering and supports the driver when braking with the airbrake function.

In addition to the manually adjustable upper wing section, the rear wing has a second wing section mounted in a lower position that generates additional downforce.

#### Function requirements

- Terminal 15 ON
- Trunk lid closed

#### Function

##### Function sequence for manual adjustment

The rear spoiler can be extended and retracted using the control elements on the steering wheel or via the multimedia system. A brief actuation of the button is sufficient for extending the rear spoiler.

Pressing and holding the button down results in an extension or retraction. If the switch is released before the upper or

lower end position has been reached, the rear spoiler reverses.

### Visual feedback signal

Visual feedback is provided via the control elements on the steering wheel and via the instrument cluster or driver's display. The following messages can be displayed here:

- Blue: Rear spoiler retracted
- Red: Rear spoiler extended in different positions
- Yellow: Rear spoiler extending or retracting
- In the event of a defective rear spoiler or defective rear spoiler control: "Rear spoiler control nonfunctional"
- In the event of an inadmissible adjustment request: "Rear spoiler nonfunctional limit 200 km/h"



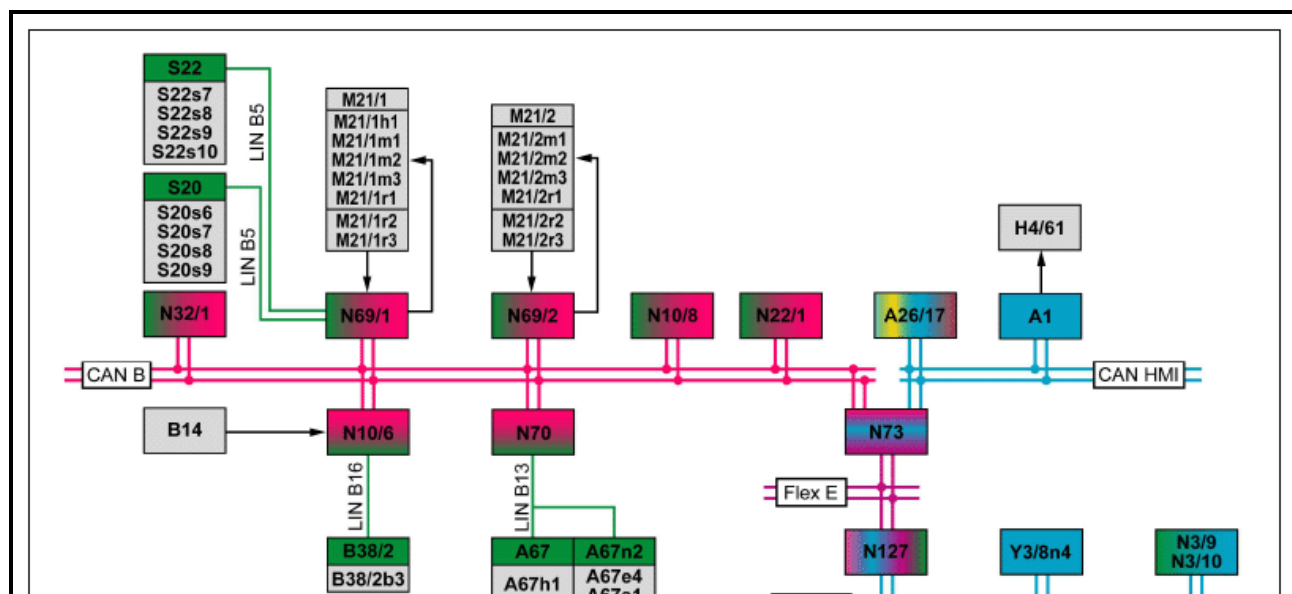
In the event of a fault message, an alarm signal also sounds.

Ä	Function schematics	Ä	Ä
Ä	Function schematic of rear spoiler	Model 232	PE88.50-P-2500-97A
Ä	Ä	Model 290 as of model year 2021	PE88.50-P-2500-97B
Ä	Additional basic functions	Ä	Ä
Ä	Multifunction steering wheel, basic function	Ä	<a href="#">GF82.90-P-2005A</a>
Ä	Component descriptions	Ä	Ä
Ä	Rear wing control unit, component description	Model 232	GF54.21-P-5001F

### ELECTRIC MIRROR, FUNCTION - GF88.79-P-0006FR

Model 257, 290

up to model year 2021



A1	Instrument cluster	N3/9	CDI control unit (diesel engine)
A26/17	Head unit	N3/10	ME-SFI [ME] control unit (gasoline engine)
A67	Inside rearview mirror	N10/6	Front SAM control unit
A67e4	Garage door opener indicator lamp (with CODE 231 (Garage door opener) or CODE 232 (Garage door opener))	N10/8	Rear SAM control unit
A67h1	Forward mirror dimming light sensor (with CODE P49 (Mirror package))	N22/1	Climate control control unit
A67h2	Rearward mirror dimming light sensor (with CODE P49 (Mirror package))	N32/1	Driver seat control unit (with code (275) Memory package)
A67h3	Mirror dimming (with CODE P49 (Mirror-package))	N69/1	Left front door control unit
A67n2	Garage door opener button 2 (with CODE 231 (Garage door opener) or CODE 232 (Garage door opener))	N69/2	Right front door control unit
A67s1	Garage door opener button 1 (with CODE 231 (Garage door opener) or CODE 232 (Garage door opener))	N70	Overhead control panel control unit
A67s2	Garage door opener button 2 (with CODE 231 (Garage door opener) or CODE 232 (Garage door opener))	N73	Electronic ignition switch control unit
A67s3	Garage door opener button 3 (with CODE 231 (Garage door opener) or CODE 232 (Garage door opener))	N127	Drivetrain control unit
B14	Outside temperature sensor	S20	Driver-side power window and outside mirror adjustment switch group
B38/2	Rain/light sensor with additional functions	S20s6	Outside mirror fold-in/out switch (with CODE P49 (Mirror-package))
B38/2b3	Humidity/temperature sensor	S20s7	Left outside mirror adjustment switch
H4/61	Instrument cluster speaker	S20s8	Right outside mirror adjustment switch
M21/1	Left outside mirror	S20s9	Outside mirror adjustment switch
M21/1h1	Mirror dimming (with CODE P49 (Mirror package))	S22	Left front seat adjustment switch group (with code (275) memory package)
M21/1m1	Vertical inclination adjustment actuator motor	S22s7	Left front memory function switch (with code (275) Memory package)
M21/1m2	Horizontal inclination adjustment actuator motor	S22s8	Left front memory 1 switch (with code (275) Memory package)
M21/1m3	Outside mirror fold-in/out electric motor (with CODE P49 (Mirror package))	S22s9	Left front memory 2 switch (with code (275) Memory package)
M21/1r1	Mirror heater	S22s10	Left front memory 3 switch (with code (275) Memory package)
M21/1r2	Vertical inclination adjustment potentiometer (with code P49 (Mirror package))	Y3/8n4	Fully integrated transmission control electric controller unit control unit
M21/1r3	Horizontal inclination sensor potentiometer (with code P49 (Mirror package))	CAN B	Interior CAN
M21/2	Right outside mirror	CAN C1	Drive train CAN
M21/2m1	Vertical inclination adjustment actuator motor	CAN HMI	User interface CAN
M21/2m2	Horizontal inclination adjustment actuator motor	Flex E	Chassis FlexRay
M21/2m3	Outside mirror fold-in/out electric motor (with CODE P49 (Mirror package))	LIN B5	Left front door LIN
M21/2r1	Mirror heater	LIN B13	Roof LIN
M21/2r2	Vertical inclination adjustment potentiometer (with code P49 (Mirror package))	LIN B16	Rain and light sensor LIN
M21/2r3	Horizontal inclination sensor potentiometer (with code P49 (Mirror package))		

## Electric mirror, general

The electric mirror function contains the following partial functions, which are described in separate documents:

- **Mirror lens adjustment left/right outside mirror, function**
- **Heat left/right outside rearview mirrors function**
- **Passenger side outside mirror park position (with code P49 (Mirror package))**
- **Left/right outside mirror folding function (with CODE P49 (Mirror-package))**
- **Automatically dimming outside and inside rearview mirror function (with CODE P49 (Mirror-package))**
- **Garage door opener function (with CODE 231 (Garage door opener) or CODE 232 (Garage door opener))**

Â	Mirror lens adjustment left/right outside mirror, function	Â	<a href="#">GF88.79-P-2008FR</a>
Â	Heat left/right outside rearview mirrors function	Â	<a href="#">GF88.79-P-2000FR</a>
Â	Passenger-side outside mirror park position, function	Model 257, 290 up to model year 2021 with code P49 (MIRROR PACKAGE)	<a href="#">GF88.79-P-2006FR</a>
Â	Fold left/right outside mirror, function	Model 257, 290 up to model year 2021 with code P49 (MIRROR PACKAGE)	<a href="#">GF88.79-P-2002FR</a>
Â	Automatic dimming outside mirror and inside rearview mirror, function	Model 257, 290 up to model year 2021 with code P49 (MIRROR PACKAGE)	<a href="#">GF88.79-P-2010FR</a>
Â	Garage door opener, function	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)	<a href="#">GF68.05-P-0001FR</a>

**TABLE OF CONTENTS FOR FUNCTION DESCRIPTION OF ELECTRIC MIRRORS - GF88.79-P-0996FR**

**Model 257, 290**

**up to model year 2021**

Â	Electric mirror, function	Â	<a href="#">GF88.79-P-0006FR</a>
Â	Mirror lens adjustment left/right outside mirror, function	Â	<a href="#">GF88.79-P-2008FR</a>
Â	Heat left/right outside rearview mirrors function	Â	<a href="#">GF88.79-P-2000FR</a>
Â	Passenger-side outside mirror park position, function	Model 257, 290 up to model year 2021 with code P49 (MIRROR PACKAGE)	<a href="#">GF88.79-P-2006FR</a>
Â	Fold left/right outside mirror, function	Model 257, 290 up to model year 2021 with code P49 (MIRROR PACKAGE)	<a href="#">GF88.79-P-2002FR</a>
Â	Automatic dimming outside mirror and inside rearview mirror, function	Model 257, 290 up to model year 2021 with code P49 (MIRROR PACKAGE)	<a href="#">GF88.79-P-2010FR</a>
Â	Garage door opener, function	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)	<a href="#">GF68.05-P-0001FR</a>



## **AUTOMATIC DIMMING OF MIRROR GLASS OF OUTSIDE MIRROR, BASIC FUNCTION - GF88.79-P-1000A**

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

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

### **Overview**

This document contains the following information:

- **General**
- **Function requirement**
- **Function**

### **General**

The mirror glass of the outside mirror of the driver's side can be continuously variably dimmed by means of an electrolyte gel. As a result, a dazzling due to light sources in the field of vision of the outside mirror can be prevented.

### **Function requirement**

- Circuit 15R ON
- Interior lighting switched off
- Reverse gear not engaged

### **Function**

The electrolyte gel of the mirror glass is actuated by the driver's door control unit depending on the inside rearview mirror request. The crystals of the electrolyte gel react to the control voltage, align themselves in a specific angle and thus darken the mirror glass. Dimming is canceled if the interior lighting is switched on or reverse gear is engaged.

Function schematics		
Function schematic for detection of transmission position	Model 118, 177, 247 with transmission 724 with code 249 (Automatic dimming inside rearview mirror and outside mirrors) Model 167 with transmission 725 with code 249 (Automatic dimming inside rearview mirror and outside mirrors) Model 213, 238 with transmission 725 with code 249 (Automatic dimming inside rearview mirror and outside mirrors) Model 243 with code 249 (Automatic dimming inside rearview mirror and outside mirrors) with code MEB2 (entry variant with M-battery) Model 257 with transmission 725 with code 249 (Automatic dimming inside rearview mirror and outside mirrors) Model 290 with transmission 725 with code 249 (Automatic dimming inside rearview mirror and outside mirrors) Model 293 with code 249 (Automatic dimming inside rearview mirror and outside mirrors) with code ME01 (Electric motor)	<a href="#">PE27.19-P-2500-97A</a>
	Model 206, 254 with transmission 725 with code 249 (Automatic dimming inside rearview mirror and outside mirrors)	PE27.19-P-2500-97B

Â	Â	Model 223 with transmission 725 with code 249 (Automatic dimming inside rearview mirror and outside mirrors)	PE27.19-P-2500-97C
Â	Â	Model 232 with transmission 725 with code 249 (Automatic dimming inside rearview mirror and outside mirrors)	PE27.19-P-2500-97D
Â	Function schematic for automatic dimming of mirror glass of inside and outside mirrors	Model 118, 167, 177, 243, 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)	<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
Â	<b>Subsystems</b>	Â	Â
Â	Inside rearview mirror dimming, basic function	Â	<a href="#">GF68.49-P-9900A</a>
Â	<b>Control units</b>	Â	Â
Â	Front door control unit, basic function	Â	<a href="#">GF72.29-P-9891A</a>
Â	<b>Components</b>	Â	Â
Â	Outside mirror, basic function	Â	GF88.79-P-2014A

## HEATING OF MIRROR GLASS OF OUTSIDE MIRROR, BASIC FUNCTION - GF88.79-P-1001A

**Model all (4xWD)**

**Model all (CAR)**

### Overview

This document contains the following information:

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

### General

The mirror heater heats the mirror glass of the outside mirrors. This allows ice or snow on the mirror glass to be defrosted and counteracts fogging of the mirror glass.

### Function requirements

- Circuit 15R ON (except for pre-entry climate control for hybrid vehicles, electric vehicles)
- Engine running or drivetrain operational (for temperature-dependent switch-on).

### Function

The mirror heater is switched on and off together with the rear window heater. It can also be switched on and off automatically depending on the outside or dew point temperature.



The dew point temperature is the temperature at which the water vapor in the outside air condenses. The mirror glass becomes fogged when its surface temperature is lower than the dew point temperature. In hybrid vehicles and electric vehicles, the mirror heater can also be switched on and off as part of pre-entry climate control.

Condition	Operating period	Additional information
Rear window heater active	According to the operating lifespan of the rear window heater	-
Pre-entry climate control activated (hybrid and electric vehicles)	According to the operating lifespan of pre-entry climate control	-
The dew point temperature is between 2 and 5°C below the outside temperature	Approx. 10 min	If the value of the dew point temperature is implausible or not available, a substitute dew point value is used.
Outside temperature below 15°C	Approx. 10 min	If the value of the outside temperature is implausible or not available, the mirror heater is switched on permanently.

Should the mirror glass become fogged after the automatic actuation of the mirror heater is stopped, the mirror heater can be switched on again via the rear window heater.

If the on-board electrical system is in a state of undervoltage, the mirror heater is switched off via the consumer reduction feature of energy management.

Function schematics	Additional basic functions
Function schematic, heat mirror glass of outside mirror	Reduce consumers, basic function
Rear window heating, basic	

Model	Part number
Model 118, 167, 177, 243, 247, 293 Model 213 238, 257, 290 as of model year 2021	<a href="#">PE88.79-P-2502-97A</a>
Model 206, 223, 232, 254, 295, 296, 297	PE88.79-P-2502-97B
Model 464	PE88.79-P-2502-97C
	<a href="#">GF54.10-P-1011A</a>
	<a href="#">GF67.29-P-9900A</a>

	function		
Â	<b>Control units</b>	Â	Â
Â	Front door control unit, basic function	Â	<a href="#">GF72.29-P-9891A</a>
Â	<b>Components</b>	Â	Â
Â	Outside mirror, basic function	Â	GF88.79-P-2014A

## **ADJUSTMENT OF MIRROR GLASS OF OUTSIDE MIRROR, BASIC FUNCTION - GF88.79-P-1002A**

**Model all (4xWD)**

**Model all (CAR)**

### **Overview**

This document contains the following information:

- **General**
- **Function requirement**
- **Function**
  - **Adjustment of mirror glass of outside mirror**
  - **Memory function (vehicles with memory function)**

### **General**

The mirror glasses of the outside mirrors can be adjusted from the driver's side.

The adjustment is carried out by two electric motors in each of the outside mirrors.

### **Function requirement**

- Circuit 15R ON

### **Function**

#### **Adjustment of mirror glass of outside mirror**

The electric motors allow the mirror glass to be tilted and swiveled continuously.

The electric motors are actuated via the outside mirror adjustment switch.

#### **Memory function (vehicles with memory function)**

The positions of the mirror glasses are detected by, in each case, two potentiometers and can be saved together with the seat adjustment.

The movement to the saved positions is triggered by one of the memory switches.

Â	<b>Function schematics</b>	Â	Â
Â	Function schematic, adjust mirror glass of outside	Model 118, 167, 177, 243, 247, 293 Model	<a href="#">PE88.79-P-2503-</a>

	mirror	213 238, 257, 290 as of model year 2021	<a href="#">97A</a>
Â	Â	Model 206, 223, 232, 254, 295, 296, 297	PE88.79-P-2503-97B
Â	Â	Model 464	PE88.79-P-2503-97C
Â	<b>Additional basic functions</b>	Â	Â
Â	Memory function, basic function	Model all (CAR) with code 275 (Memory Package (driver's seat, steering column and mirror))	<a href="#">GF91.10-P-9901A</a>
Â	<b>Control units</b>	Â	Â
Â	Front door control unit, basic function	Â	<a href="#">GF72.29-P-9891A</a>
Â	<b>Components</b>	Â	Â
Â	Power window assembly and outside mirror adjustment switch group, driver's side, basic function	Â	<a href="#">GF72.29-P-2006A</a>
Â	Outside mirror, basic function	Â	GF88.79-P-2014A

## **MOVE MIRROR GLASS OF OUTSIDE MIRROR TO PARKING POSITION, BASIC FUNCTION - GF88.79-P-1003A**

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

**with code 275 (Memory Package (driver's seat, steering column and mirror))**

### **Overview**

This document contains the following information:

- **General**
- **Function requirement**
- **Function**
  - **Moving mirror glass of outside mirror to parking position**
  - **Memory function**

### **General**

The mirror glass of the front-passenger outside mirror can automatically be moved into the freely adjustable parking position when backing up.

The parking position directs the view of the driver during parking to an area beside the rear wheel. Damage to the tires or rims can thus be prevented.

### **Function requirement**

- Circuit 15 ON

### **Function**

## Moving mirror glass of outside mirror to parking position

To be able to use the parking position, this must be previously defined and saved.

The parking position is then moved to every time if the front-passenger mirror is selected via the corresponding adjustment control element and reverse gear is engaged.

If the mirror glass adjustment is changed while in parking position, the set position is saved as the new parking position.

The mirror glass of the front-passenger outside mirror is automatically moved back to the original position if one of the following statuses is fulfilled:

- Circuit 15 OFF
- Reverse gear not engaged for longer than 10 s
- Vehicle speed greater than 15 km/h
- Front-passenger mirror not selected for adjustment

## Memory function

The parking position can be saved together with the seat adjustment and mirror glass positions.

Â	Function schematics	Â	Â
Â	Function schematic for detection of transmission position	Model 118, 177, 247 with transmission 724 with code 275 (Memory Package (driver's seat, steering column and mirror)), model 213, 238, 257, 290 with transmission 725 with code 275 with code 275 (Memory Package (driver's seat, steering column and mirror))	<a href="#">PE27.19-P-2500-97A</a>
Â	Â	Model 223 with transmission 725 with code 275 (Memory Package (driver's seat, steering column and mirror))	PE27.19-P-2500-97C
Â	Â	Model 206, 254 with transmission 725 with code 275 (Memory Package (driver's seat, steering column and mirror))	PE27.19-P-2500-97B
Â	Â	Model 232 with transmission 725 with code 275 (Memory Package (driver's seat, steering column and mirror))	PE27.19-P-2500-97D
Â	Function schematic, move mirror glass of outside mirror to parking position	Model 118, 177, 243, 247 with code 275 (Memory Package (driver's seat, steering column and mirror)) Model 213, 238, 257, 290 as of model year 2021 with code 275 (Memory Package (driver's seat, steering column and mirror))	<a href="#">PE88.79-P-2504-97A</a>
Â	Â	Model 167, 293 with code 275 (Memory Package (driver's seat, steering column and mirror))	PE88.79-P-2504-97B
Â	Â	Model 206, 223, 232, 254, 295, 296, 297 with code 275 (Memory Package (driver's seat, steering column and mirror))	PE88.79-P-2504-97C
Â	<b>Additional basic functions</b>	Â	Â
Â	Memory function, basic function	Model all (CAR) with code 275 (Memory Package (driver's seat, steering column and	<a href="#">GF91.10-P-9901A</a>

		mirror))	
Â	<b>Control units</b>	Â	Â
Â	Front door control unit, basic function	Â	<a href="#">GF72.29-P-9891A</a>
Â	<b>Components</b>	Â	Â
Â	Power window assembly and outside mirror adjustment switch group, driver's side, basic function	Â	<a href="#">GF72.29-P-2006A</a>
Â	Outside mirror, basic function	Â	GF88.79-P-2014A

## **FOLD DOWN OUTSIDE MIRROR, BASIC FUNCTION - GF88.79-P-1004A**

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

#### **Overview**

This document contains the following information:

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

**i** The function "Folding in/out" is either available as special equipment with code 500 (Electric folding outside mirror) or with code P49 (Mirror Package). In model 223, the function is available as standard.

#### **General**

The outside mirrors can each be folded in and out via an electric motor.

This function offers the following advantages:

- The risk of damage to a parked vehicle is reduced.
- The vehicle's space requirement in narrow garages and passages can be reduced.

#### **Function requirements**

- Function activated via the multimedia system (automatic folding in/out).
- Circuit 15R on (fold down via the switch for folding outside mirrors in/down)
- Circuit 15 ON (fold in via the switch for folding outside mirrors in/down)

#### **Function**

The electric motors can be actuated via the outside mirror fold in/out switch or automatically.

With each request, both outside mirrors are folded in or down. The electric motors are actuated in this connection for 5 s in the corresponding direction.

A new request reverses an already active actuation.

**i** To ensure that the outside mirrors are folded down securely, the electric motors are actuated for 1 s when a speed of 47 km/h is exceeded.

Outside mirrors that are folded in are folded down automatically under the following conditions:

- When the vehicle is unlocked and the driver's door is subsequently opened
- When circuit 15R is ON

Outside mirrors that are folded down are folded in automatically when the vehicle is locked.

Via the outside mirror fold in/out switch, the outside mirrors can be manually folded in/out.

**i** As from a speed of 47 km/h, the outside mirrors can no longer be folded in.

Â	Function schematics	Â	Â
Â	Function schematic, fold in outside mirrors	Model 118, 167, 177, 243, 247, 293 with code 500 (Electrically folding exterior mirrors) Model 213, 238, 257, 290 as of model year 2021 with code 500 (Electrically folding exterior mirrors)	<a href="#">PE88.79-P-2500-97A</a>
Â	Â	Model 206, 223, 232, 254, 295, 296, 297	PE88.79-P-2500-97B
Â	<b>Control units</b>	Â	Â
Â	Front door control unit, basic function	Â	<a href="#">GF72.29-P-9891A</a>
Â	<b>Components</b>	Â	Â
Â	Power window assembly and outside mirror adjustment switch group, driver's side, basic function	Â	<a href="#">GF72.29-P-2006A</a>
Â	Outside mirror, basic function	Â	GF88.79-P-2014A

## HEAT LEFT/RIGHT OUTSIDE REARVIEW MIRRORS FUNCTION - GF88.79-P-2000FR

### Model 257, 290

up to model year 2021

#### Function requirements, general

- No overvoltage or undervoltage
- On-board electrical system consumer shutoff not active
- Particular (local) front power window not active

#### Heat left/right outside mirror, general

The mirror heater (M21/1r1) in the left outside mirror (M21/1) and the mirror heater (M21/2r1) in the right outside



mirror (M21/2) can be activated as follows:

- Priority 1: via heated rear window function
- Priority 2: via temperature-dependent control

If several requests are present simultaneously, the mirror heaters are always operated at the highest possible actuation power resulting from the corresponding actuation source.

The left front door control unit (N69/1) directly actuates the mirror heater in the left outside mirror. The right front door control unit (N69/2) directly actuates the mirror heater in the right outside mirror.

The heating left/right outside mirror function comprises the following partial functions:

- **Mirror heater with heated rear window function switched on**
- **Temperature-dependent mirror heater**

#### **Additional function requirement for mirror heater when rear window heater function is switched on**

- Terminal 15 ON



The electronic ignition lock control unit (N73) sends the status of circuit 15 via interior CAN (CAN B) to the front door control units.

#### **Mirror heater with heated rear window function switched on**

With the heated rear window function active, the rear SAM control unit (N10/8) transmits the status "Heated rear window active" via interior CAN to the front door control units. Then the left front door control unit switches on the mirror heater in the left outside mirror. Then the right front door control unit switches on the mirror heater in the right outside mirror. The mirror heaters are actuated as long as the request is present at a capacity of 100 %. When heated rear window function is switched off, the mirror heaters are also switched off.

#### **Additional function requirements for temperature-dependent mirror heater**

- "Engine running" or "drive train operational" signal on



The "Engine running" or "Drivetrain operational" signal is sent by the CDI control unit (N3/9) (with diesel engine) or the ME-SFI [ME] control unit (N3/10) (with gasoline engine) over the drive train CAN (CAN C1), powertrain control unit (N127), chassis FlexRay, electronic ignition lock control unit and the interior CAN to the front door control units.

#### **Temperature-dependent mirror heater**

The mirror heaters are operated depending on the following values:

- Outside temperature
- Dewpoint temperature

The front door control units compare both values with each other and switch the mirror heaters on if a dew point temperature of  $2\hat{A}^{\circ}\text{C}$  is below the outside temperature.

Outside temperature:

The outside temperature is detected by the outside temperature sensor (B14). The front SAM control unit (N10/6) directly reads the signal from the outside temperature sensor, uses it to calculate the outside temperature and sends a corresponding signal to the instrument cluster via interior CAN (CAN B), electronic ignition lock control unit (A1) and user interface CAN (CAN HMI). The instrument cluster calculates the outside temperature to be displayed, taking the vehicle speed and the engine heat into consideration, and transmits the corrected outside temperature via the user interior CAN, electronic ignition lock control unit and interior CAN to the front door control units.

**i** If the value of the outside temperature is implausible or not available, the mirror heaters are switched off permanently.

Dew point temperature:

The dew point temperature is the temperature at which water vapor would condense in the outside air. The glass in the mirrors would fog up.

The dew point temperature is sensed by the humidity and temperature sensor (B38/2b3) in the rain/light sensor with additional functions (B38/2). The rain/light sensor with additional functions sends the dew point temperature via rain/light sensor LIN (LIN B16), front SAM control unit and interior CAN to the climate control unit (N22/1). The climate control unit transmits dew point temperature to the front door control unit via the interior CAN.

The left front door control unit actuates the mirror heater in the left outside mirror, the right front door control unit actuates the mirror heater in the right outside mirror.

**i** The value of the dew point is implausible or not available, a substitute value of 13°C (programmable via diagnostic tester) is used. The mirror heaters are pulse width modulated (PWM), i.e. performance-controlled.

Restart or temperature range change at decreasing temperature	Thawing phase		Holding phase	
	Duration	PWM value	Duration	PWM value
above 5°C	2 min	100 %	Temperature-dependent	30 %
5 to -5°C	5 min	100 %	Temperature-dependent	70 %
below -5°C	10 min	100 %	Temperature-dependent	100 %

Temperature range change at increasing temperature	Thawing phase		Holding phase	
	Duration	PWM value	Duration	PWM value
below -2°C	10 min	100 %	Temperature-dependent	100 %
-2 to 8°C	5 min	100 %	Temperature-dependent	70 %
above 8°C	2 min	100 %	Temperature-dependent	30 %

The mirror heaters are switched off at:

- Outside temperature  $\geq$  dew point  $+5^{\circ}\text{C}$  (programmable via diagnosis tester)
- Outside temperature  $18^{\circ}\text{C}$

Ä	Electrical function diagram for mirror heater	Ä	<a href="#">PE88.79-P-2055-97XBA</a>
Ä	Overview of system components for electric mirror	Ä	<a href="#">GF88.79-P-9996FR</a>

## **FOLD LEFT/RIGHT OUTSIDE MIRROR, FUNCTION - GF88.79-P-2002FR**

**Model 257, 290**

**up to model year 2021**

**with code P49 (MIRROR PACKAGE)**

### **Function requirements, general**

- No overvoltage or undervoltage

### **Left/right folding outside mirror, general**

The left outside mirror (M211) and right outside mirror (M212) can be folded in and out electrically. This can be done both automatically and manually. The left front door control unit (N69/1) has the master function during adjustment and sends corresponding requests to the right front door control unit (N69/2) via interior CAN (CAN-B).

If a new adjustment request is recognized while adjustment is in progress, the active adjustment is directly switched to the opposite direction.

The left/right outside mirror comprises the following partial functions:

- **Manually folding-in/out**
- **Automatic folding in/out**

### **Manually folding-in/out**

The partial function manual fold-in/out comprises the following subfunctions:

- **Manual folding in**
- **Manual folding out**

### **Additional function requirements for manually folding in**

- Outside mirror folded out
- Terminal 15 ON
- Vehicle speed below 47 km/h



The electronic ignition lock control unit (N73) sends the status of circuit 15 to left front door control unit via interior CAN.

The instrument cluster (A1) sends the vehicle speed via user interface CAN (CAN HMI), electronic ignition lock control unit and interior CAN to the left front door control unit.

### **Manual folding in**

By pressing the outside mirror fold in/out switch (S20s6) in the driver power window and outside mirrors adjustment switch group (S20), the two outside mirror housings can be folded in (garage position).

The left front door control unit reads in the status of the outside mirror fold-in/out switch via left front door LIN (LIN B5) and transmits the request "Fold in right outside mirror" to the right front door control unit via the interior CAN. The left front door control unit then actuates the outside mirror fold-in/out electric motor (M211m3) in the left outside mirror. The right door control unit then actuates the outside mirror fold-in/out electric motor (M21/2m3) in the right outside mirror. The actuation duration is 5 s.



It is no longer possible to fold in the outside mirrors above a vehicle speed of 47 km/h.

#### **Additional function requirements for manual fold-out**

- Outside mirror folded in
- Circuit 15R ON



The electronic ignition lock control unit sends the status of circuit 15 to left front door control unit via the interior CAN.

#### **Manual folding out**

Both outside mirrors are folded to the driving position when the outside mirror fold-in/out switch is actuated.

The left front door control unit reads in the status of the outside mirror fold-in/out switch via left front door LIN and transmits the request "Fold out right outside mirror" to the right front door control unit via the interior CAN. The left front door control unit then actuates the outside mirror fold-in/out electric motor in the left outside mirror. The right front door control unit then actuates the outside mirror fold-in/out electric motor in the right outside mirror. The actuation duration is 5 s.

#### **Additional function requirements for automatic fold-in/out**

- Function activated in head unit (A26/17)



The head unit sends the status of the fold-in/out outside mirror function via user interface CAN, electronic ignition lock control unit and interior CAN to the left front door control unit.

#### **Automatic folding in/out**

The partial function automatic fold-in/out comprises the following subfunctions:

- **Automatic folding in**
- **Automatic folding out**

#### **Additional function requirements for automatic folding in**

- Outside mirror folded out
- Circuit 15C OFF



The electronic ignition lock control unit sends the status of circuit 15 to left front door control unit via the interior CAN.

## Automatic folding in

When the vehicle is locked from the outside with the central locking (CL [CL]), both outside mirrors are folded in automatically (garage position).

The electronic ignition lock control unit sends the status of the central locking to the left door control unit via the interior CAN. The left front door control unit then transmits the request "Fold in right outside mirror" via the interior CAN to the right front door control unit and actuates the outside fold-in/out mirror electric motor in the left outside mirror. The right front door control unit then actuates the outside mirror fold-in/out electric motor in the right outside mirror. The actuation duration is 5 s.

## Additional function requirements for automatic folding out

- Outside mirror folded in
- CL locked

## Automatic folding out

When the vehicle is unlocked via the CL and then the driver door opened or when switched circuit 15, both outside mirrors are folded out automatically to the driving position.

The electronic ignition lock control unit sends the status of the central locking to the left door control unit via the interior CAN. Opening the driver door is sensed by the left front door control unit. The left front door control unit then transmits the request "Fold out right outside mirror" via interior CAN to the right front door control unit and actuates the outside mirror fold-in/out electric motor in the left outside mirror. The right front door control unit then actuates the outside mirror fold-in/out electric motor in the right outside mirror. The actuation duration is 5 s.



If the outside mirrors are still folded in with circuit 15R ON by a previous automatic folding-in procedure, the mirror housings are folded out immediately.



To ensure that the outside mirrors are folded out completely, the electric motors for folding the outside mirrors in/out are actuated for another 1 s when the speed of 47 km/h is exceeded.

Â	Electrical function diagram for folding outside mirrors	Â	<a href="#">PE88.79-P-2057-97XBA</a>
Â	Overview of system components for electric mirror	Â	<a href="#">GF88.79-P-9996FR</a>

## **PASSENGER-SIDE OUTSIDE MIRROR PARK POSITION, FUNCTION - GF88.79-P-2006FR**

**Model 257, 290**

**up to model year 2021**

**with code P49 (MIRROR PACKAGE)**

## Function requirements, general

- No overvoltage or undervoltage
- Function for park position via variant coding activated
- Circuit 15R ON

**i** The circuit 15 status is sent by the electronic ignition lock control unit (N73) over the interior CAN (CAN B) to the right front door control unit (N69/2).

### **Passenger-side outside mirror park position, general**

It is possible to save and call a park position of the outside mirror (M21/2) when the car is shifted into reverse, allowing the driver to see the curb.

The passenger-side outside mirror park position function includes the following subfunctions:

- **Store park position**
- **Calling park position**
- **Calling drive position**

### **Store park position**

The right outside mirror must be selected to define the park position of the right outside mirror. Then engage reverse gear, then the right outside mirror can be adjusted.

The right outside mirror is selected by actuating the right outside mirror adjustment switch (S20s8) in driver power window and outside mirror adjustment switch (S20).

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 (Y3/8n4) transmits the selector lever position via drive CAN (CAN C1), powertrain control unit (N127) and suspension FlexRay (Flex E) to the electronic ignition lock control unit. The electronic ignition lock control unit uses the incoming information to generate the status "Reverse gear engaged" and transmits it via the interior CAN to the right front door control unit.

The right outside mirror is adjusted by actuating the outside mirror adjustment switch (S20s9). The left front door control unit (N69/1) reads in the selection and requests for adjusting via left front door LIN (LIN B5) and transmits the corresponding requests to adjust the right outside mirror to the right front door control unit via the interior CAN.

The right front door control unit then actuates the vertical inclination adjustment actuator motor (M21/2m1) and horizontal inclination adjustment actuator motor (M21/2m2) accordingly.

The right front door control unit directly reads in the signals from the vertical inclination adjustment potentiometer (M21/2r2) and the horizontal inclination adjustment potentiometer (M21/2r3). The right front door control unit then evaluates these signals and stores the current position of the right outside mirror as the park position automatically.

### **Vehicles with code 275 (Memory package):**

The park position of the right outside mirror can be stored additionally and manually via the left front memory switch function (S22s7) in the left front seat adjustment switch group (S22).

After momentarily pressing the left front memory function switch and then actuating the outside mirror adjustment switch in any direction within 3 s the current position of the right outside mirror in the right front door control unit is stored as park position. Manual adjustment is not performed. The left front door control unit reads in the corresponding status via left door LIN and transmits the request "Store passenger outside mirror park position" to the right front door control unit via the interior CAN.

**i** If the right outside rear view mirror is adjustment manually when it is in the park position or during the time it is

moving to the park position, the final position after adjustment is saved as the new park position.

### Calling park position

By engaging the reverse gear for longer than 0.6 s, the park position for the right outside mirror is called up.

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 the incoming information to generate the status "Reverse gear engaged" and transmits it via the interior CAN to the right front door control unit.

The right front door control unit then actuates the vertical inclination adjustment actuator motor and horizontal inclination adjustment actuator motor until the park position is reached. The mirror glass position is recognized using the data of the vertical inclination adjustment actuator motor and horizontal inclination adjustment actuator motor.

### Calling drive position

The right outside mirror is automatically moved back to the original position when one of the following conditions is fulfilled:

- Circuit 15 OFF
- Signal "Reverse gear engaged" is not present for more than 10 s
- Vehicle speed greater than 15 km/h
- Right outside mirror adjustment switch not actuated

 The instrument cluster (A1) sends the vehicle speed via user interface CAN (CAN HMI), electronic ignition lock control unit and interior CAN to the right front door control unit.

Â	Electrical function schematic for passenger-side outside mirror park position	Â	<a href="#">PE88.79-P-2054-97XBA</a>
Â	Overview of system components for electric mirror	Â	<a href="#">GF88.79-P-9996FR</a>


## MIRROR LENS ADJUSTMENT LEFT/RIGHT OUTSIDE MIRROR, FUNCTION - GF88.79-P-2008FR

### Model 257, 290

#### up to model year 2021

#### Function requirements, general

- No overvoltage or undervoltage
- Circuit 15R ON

 The circuit 15 status is sent by the electronic ignition lock control unit (N73) over the interior CAN (CAN B) to the left front door control unit (N69/1).

#### Mirror lens adjustment left/right outside mirror, general

The mirror glasses in the left outside mirror (M21/1) and right outside mirror (M21/2) can be adjusted electrically.

The left/right outside mirror glass adjustment comprises the following partial functions:

- **Adjust mirror glass**
- **Storing/calling up mirror glass position (with code 275 (Memory-package))**

### **Adjust mirror glass**

The corresponding outside mirror is selected via the left outside mirror adjustment switch (S20s7) or the right outside mirror adjustment switch (S20s8) in the driver side power window and outside mirror adjustment switch group (S20). The selected outside mirror is displayed by an LED in the corresponding outside mirror adjustment switch. The selected outside mirror can be adjusted to the desired position with the outside mirror adjustment switch (S20s9). The position can be adjusted horizontally and vertically.

The left front door control unit reads in the corresponding status via left front door LIN (LIN B5) and transmits the request "Outside mirror actuator motor) for the right outside mirror via the interior CAN to the right front door control unit (N692). At the same time, the left front door control unit sends a corresponding signal for visual feedback via the LED in the corresponding outside mirror adjustment switch via left front door LIN to the driver side power window and outside mirror adjustment switch group.

The left front door control unit actuates the vertical inclination adjustment actuator motor (M21/1m1) and horizontal inclination adjustment actuator motor (M21/1m2) in the left outside mirror. The right front door control unit actuates the vertical inclination adjustment actuator motor (M21/2m1) and horizontal inclination adjustment actuator motor (M21/2m2) in the right outside mirror.

### **Storing/calling up mirror glass position (with code 275 (Memory-package))**

The storing/calling up mirror glass position function comprises the following subfunctions:

- **Store mirror glass position**
- **Calling mirror glass position**

#### **Store mirror glass position**

There are two buttons for storing with the left front seat adjustment switch group (S22):

- Press and hold down left front memory function switch (S22s7).

Then press left front memory switch 1 (S22s8), left front memory switch 2 (S22s9) or left front memory switch 3 (S22s10).

- Press memory switch function at front left for longer than 100 ms.

Then press left front memory switch 1, left front memory switch 2 or left front memory switch 3 within 0.2 to 3 s.

The left front door control unit reads in the status of the switch via the left front door LIN and transmits this via the interior CAN to the driver seat control unit (N32/1). The driver seat control unit then transmits the request to store the memory position via the interior CAN to the left front door control unit and right front door control unit.

The position of the outside mirror is stored in the left front door control unit and right front door control unit based on the data from the following potentiometers:

- Vertical inclination adjustment potentiometer (M21/1r2)



- Horizontal inclination adjustment potentiometer (M21/1r3)
- Vertical inclination adjustment potentiometer (M21/2r2)
- Horizontal inclination adjustment potentiometer (M21/2r3)

The left front door control and right front door control unit directly read in the signals from the corresponding potentiometers.



Parallel to this the position of the driver seat and steering column is stored in the driver seat control unit.

Successful storage is confirmed by an acknowledgment tone from the instrument cluster (H461).

The driver seat control unit sends the request to output an acknowledgment tone via the interior CAN, electronic ignition lock control unit and user interface CAN (CAN HMI) to the instrument cluster (A1), which actuates the instrument cluster speaker directly.

### Calling mirror glass position

A stored mirror glass position can be called up via one of the left front memory switches. To do so, one of the left front memory switches must be pressed until the stored position is reached.

The left front door control unit reads in the status of the corresponding left front door memory switch via left front door LIN and transmits it via the interior CAN to the driver seat control unit. The driver seat control unit then transmits the request to store the memory position via the interior CAN to the left front door control unit and right front door control unit.

The left front door control unit actuates the vertical inclination adjustment actuator motor and the horizontal inclination adjustment actuator motor in the left outside mirror.

The right front door control unit actuates the vertical inclination adjustment actuator motor and horizontal inclination adjustment actuator motor in the right outside mirror.

Â	Electrical function schematic for mirror lens adjustment	Â	<a href="#">PE88.79-P-2051-97XBA</a>
Â	Overview of system components for electric mirror	Â	<a href="#">GF88.79-P-9996FR</a>

## **AUTOMATIC DIMMING OUTSIDE MIRROR AND INSIDE REARVIEW MIRROR, FUNCTION - GF88.79-P-2010FR**

**Model 257, 290**

**up to model year 2021**

**with code P49 (MIRROR PACKAGE)**

### Function requirements, general

- No overvoltage or undervoltage
- Circuit 15R ON



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

## Automatic dimming outside mirror and inside rearview mirror, general

The inside rearview mirror (A67) senses the ambient light via the mirror dimming light sensor, forward (A67h1) and the light hitting the mirror glass via the mirror dimming light sensor, rearward (A67h2).

The inside rearview mirror evaluates the input factors and transmits the request for mirror dimming via roof LIN (LIN B13) to the overhead control panel control unit. The overhead control panel control unit transmits the dimming information via the interior CAN to the left front door control unit (N69/1).

The left door control unit receives the dimming information and supplies the corresponding actuation voltage to the mirror dimming (M21/1h1) of the left outside mirror (M21/1). The mirror glass of the inside rearview mirror is dimmed by the inside rearview mirror itself by means of activation of the inside rearview mirror dimming (A67h3).

**i** If an interior illumination is switched on during mirror dimming or the reverse gear is engaged, the dimming is interrupted.

Â	Electrical function schematic for automatic dimming mirror	Â	<a href="#">PE88.79-P-2056-97XBA</a>
Â	Overview of system components for electric mirror	Â	<a href="#">GF88.79-P-9996FR</a>

## INSIDE AND OUTSIDE MIRROR, BASIC FUNCTION - GF88.79-P-9900A

### Model all (CAR)

The rear traffic can be observed via the inside rearview mirror and outside mirrors.

The mirror glasses of the outside mirrors are adjusted via electric motors. In the case of the inside rearview mirror, the entire housing must be manually adjusted. For vehicles with Blind Spot Assist, the warning displays for the Blind Spot Assist are integrated in the outside mirrors. The driver is made aware of overtaking traffic occurring in the blind spot via the warning displays.

The inside rearview mirror and outside mirrors have the following functions amongst others:

### Inside rearview mirror

- Dim inside rearview mirror (vehicles with automatically dimming mirror).

### Exterior rearview mirrors

- Fold in outside mirror (vehicles with electric foldable outside mirror).
- Heating of mirror glass of outside mirror.
- Dim mirror glass of the outside mirror automatically (vehicles with automatically dimming mirror).
- Move mirror glass of the outside mirror into parking position.

Â	Subsystems	Â	Â
Â	Inside rearview mirror dimming, basic function	Model all (CAR) with code 249 (Automatic dimming inside rearview mirror and outside mirrors)	<a href="#">GF68.49-P-9900A</a>
Â	Automatic dimming of mirror glass of outside mirror, basic function	Model all (CAR) with code 249 (Automatic dimming inside rearview	<a href="#">GF88.79-P-1000A</a>

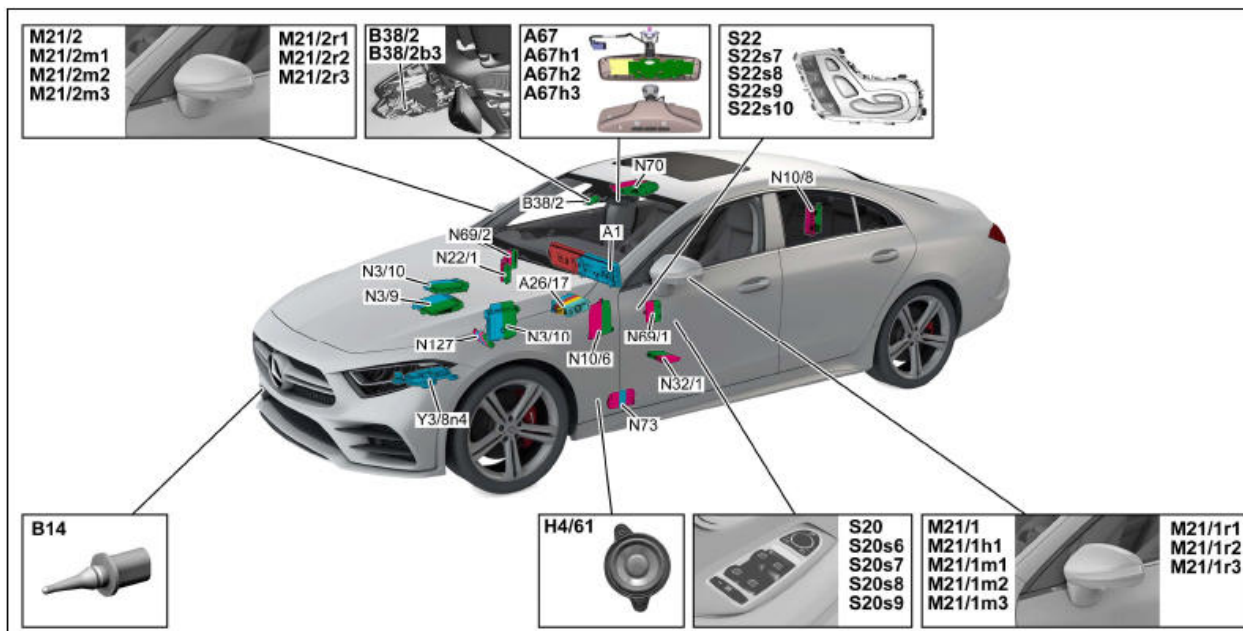
		mirror and outside mirrors)	
Â	Heating of mirror glass of outside mirror, basic function	Â	<a href="#">GF88.79-P-1001A</a>
Â	Adjustment of mirror glass of outside mirror, basic function	Â	<a href="#">GF88.79-P-1002A</a>
Â	Move mirror glass of outside mirror to parking position, basic function	Model all (CAR) with code 275 (Memory Package (driver's seat, steering column and mirror))	<a href="#">GF88.79-P-1003A</a>
Â	Fold down outside mirror, basic function	Model all (CAR) with code 500 (Electrically folding exterior mirrors)	<a href="#">GF88.79-P-1004A</a>
<b>Component description</b>			
Â	Inside rearview mirror, component description	Model 223 with code 231 (Garage door opener) with code 249 (Automatic dimming inside rearview mirror and outside mirrors) Model 223 with code 232 (Garage door opener with frequency 284-390 MHz) with code 249 (Automatic dimming inside rearview mirror and outside mirrors)	GF68.49-P-2106A
Â	Â	Model 243	GF68.49-P-2106B
Â	Â	Model 206	GF68.49-P-2106C
Â	Â	Model 297	GF68.49-P-2106D
Â	Â	Model 295	GF68.49-P-2106E
Â	Â	Model 232	GF68.49-P-2106F

**OVERVIEW OF SYSTEM COMPONENTS FOR ELECTRIC MIRROR - GF88.79-P-9996FR**

**Model 257, 290**

**up to model year 2021**



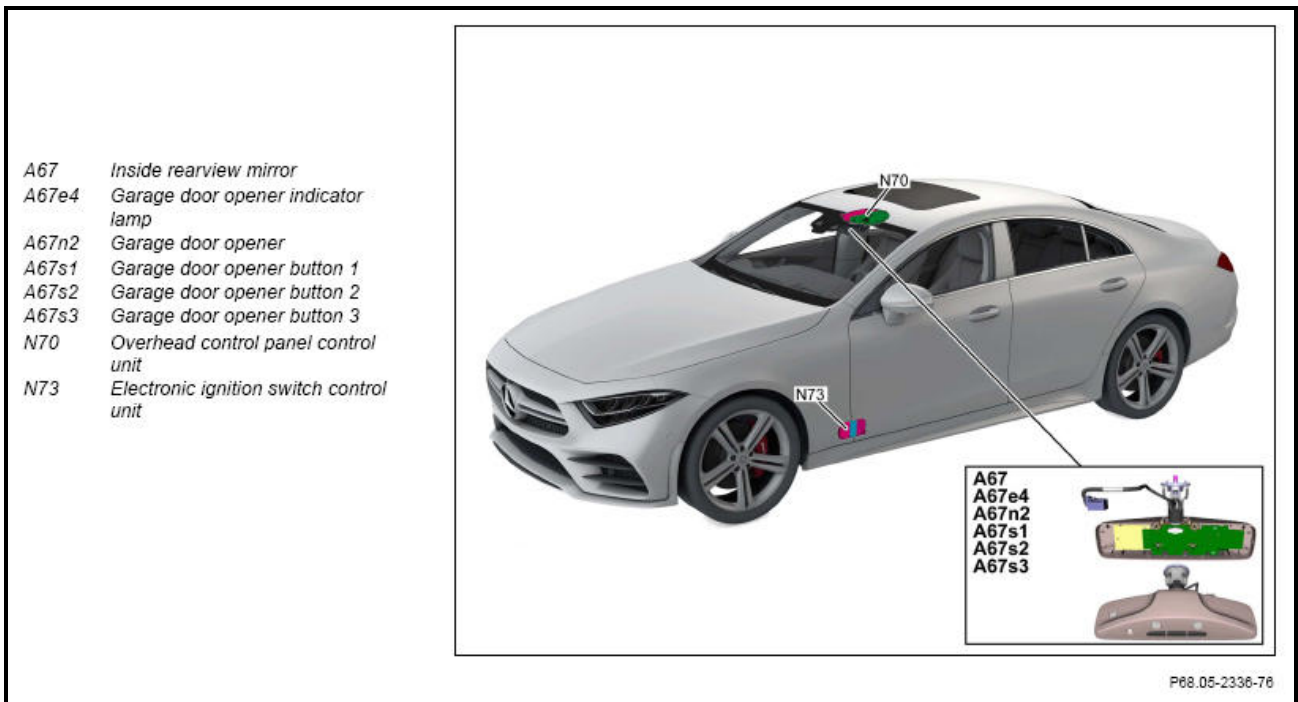


P88.79-2393-79

A1	Instrument cluster	M21/2r3	Horizontal inclination sensor potentiometer (with code P49 (Mirror package))
A26/17	Head unit	N3/9	CDI control unit (diesel engine)
A67	Inside rearview mirror	N3/10	ME-SFI [ME] control unit (gasoline engine, with engine 177, 256 located in center, with engine 264 located at left)
A67h1	Forward mirror dimming light sensor (with CODE P49 (Mirror package))	N10/6	Front SAM control unit
A67h2	Rearward mirror dimming light sensor (with CODE P49 (Mirror package))	N10/8	Rear SAM control unit
A67h3	Mirror dimming (with CODE P49 (Mirror-package))	N22/1	Climate control control unit
B14	Outside temperature sensor	N32/1	Driver seat control unit (with code (275) Memory package)
B38/2	Rain/light sensor with additional functions	N69/1	Left front door control unit
B38/2b3	Humidity/temperature sensor	N69/2	Right front door control unit
H4/61	Instrument cluster speaker	N70	Overhead control panel control unit
M21/1	Left outside mirror	N73	Electronic ignition switch control unit
M21/1h1	Mirror dimming (with CODE P49 (Mirror package))	N127	Drivetrain control unit
M21/1m1	Vertical inclination adjustment actuator motor	S20	Driver-side power window and outside mirror adjustment switch group
M21/1m2	Horizontal inclination adjustment actuator motor	S20s6	Outside mirror fold-in/out switch (with CODE P49 (Mirror-package))
M21/1m3	Outside mirror fold-in/out electric motor (with CODE P49 (Mirror package))	S20s7	Left outside mirror adjustment switch
M21/1r1	Mirror heater	S20s8	Right outside mirror adjustment switch
M21/1r2	Vertical inclination adjustment potentiometer (with code P49 (Mirror package))	S20s9	Outside mirror adjustment switch
M21/1r3	Horizontal inclination sensor potentiometer (with code P49 (Mirror package))	S22	Left front seat adjustment switch group (with code (275) memory package)
M21/2	Right outside mirror	S22s7	Left front memory function switch (with code (275) Memory package)
M21/2m1	Vertical inclination adjustment actuator motor	S22s8	Left front memory 1 switch (with code (275) Memory package)
M21/2m2	Horizontal inclination adjustment actuator motor	S22s9	Left front memory 2 switch (with code (275) Memory package)
M21/2m3	Outside mirror fold-in/out electric motor (with CODE P49 (Mirror package))	S22s10	Left front memory 3 switch (with code (275) Memory package)
M21/2r1	Mirror heater	Y3/8n4	Fully integrated transmission control electric controller unit control unit
M21/2r2	Vertical inclination adjustment potentiometer (with code P49 (Mirror package))		

**Electrical mirror, shown on model 257.3**

**Garage door opener (with code 231 (Garage door opener) or code 232 (Garage door opener)), shown on model 257.3**



Â	Component description for instrument cluster	A1	<a href="#">GF54.30-P-6000FR</a>
Â	Head unit, component description	Model 257, 290 up to model year 2021 with code 506 (Audio 20 NTG 5.5 radio) except code 531 (COMAND APS) A26/17	<a href="#">GF82.85-P-3140FRA</a>
Â	Â	Model 257, 290 up to model year 2021 with code 531 (COMAND APS) A26/17	<a href="#">GF82.85-P-3140FRB</a>
Â	Component description for CDI control unit	Model 257 with engine 654.9 up to model year 2021 N3/9	GF07.16-P-6000ORD
Â	Â	Model 257 with engine 656.9 up to model year 2021 N3/9	GF07.16-P-6000OIA
Â	Component description for ME-SFI (ME) control unit	Model 290 with engine 177.9	GF07.61-P-6000MNL

Â	Â	up to model year 2021 N3/10 Model 257, 290 with engine 256.9 up to model year 2021	<a href="#"><u>GF07.61-P-6000MRT</u></a>
Â	Â	N3/10 Model 257 with engine 264.9 up to model year 2021 N3/10	GF07.61-P-6000MRG
Â	Component description for front SAM control unit	N10/6	<a href="#"><u>GF54.21-P-7010FR</u></a>
Â	Component description for rear SAM control unit	N10/8	<a href="#"><u>GF54.21-P-7030FR</u></a>
Â	Climate control control unit, component description	N22/1	<a href="#"><u>GF83.40-P-2250FR</u></a>
Â	Component description for driver seat control unit	Model 257, 290 up to model year 2021 with code 275 (Memory Package (driver's seat, steering column and mirror)) Model 257, 290 up to model year 2021 with code 278 (Fully electric front seats) N32/1	<a href="#"><u>GF91.29-P-5231FR</u></a>
Â	Component description for left front door control unit	N69/1	<a href="#"><u>GF72.29-P-6001FR</u></a>
Â	Component description for right front door control unit	N69/2	<a href="#"><u>GF72.29-P-6009FR</u></a>
Â	Component description for overhead control panel control unit	N70	<a href="#"><u>GF82.20-P-5216FR</u></a>
Â	Component description for the electronic ignition lock control unit	N73	<a href="#"><u>GF80.57-P-6001FR</u></a>
Â	Drivetrain control unit, component description	Model 257 with engine 654.9 up to model year 2021 N127	GF54.21-P-2141ORD
Â	Â	Model 257 with engine 656.9 up to model year 2021 N127	GF54.21-P-2141OIA
Â	Â	Model 257, 290 with engine 256.9 up to model year 2021 Model 290 with engine	<a href="#"><u>GF54.21-P-2141LF</u></a>



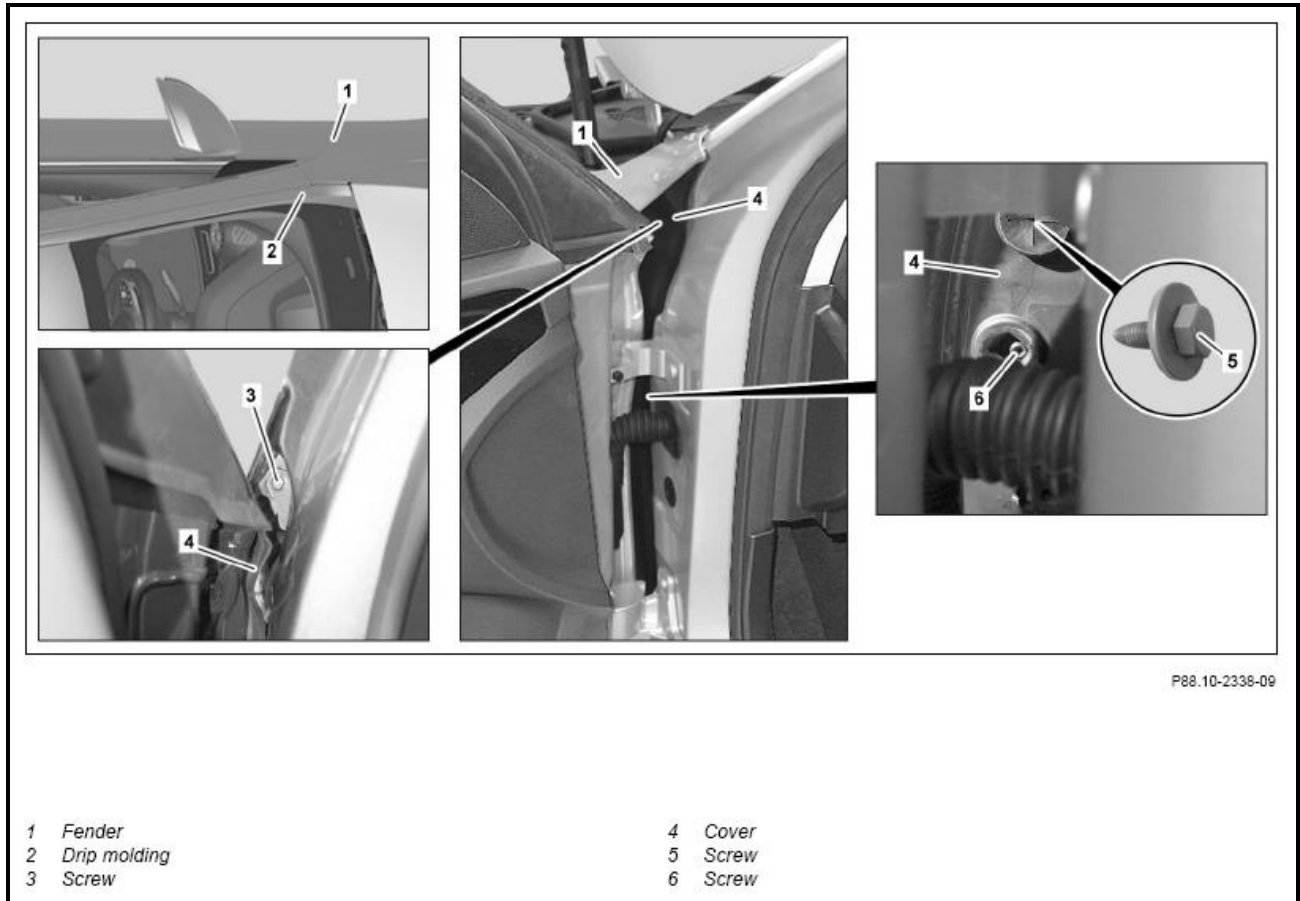


- When cutting out, wear safety glasses.

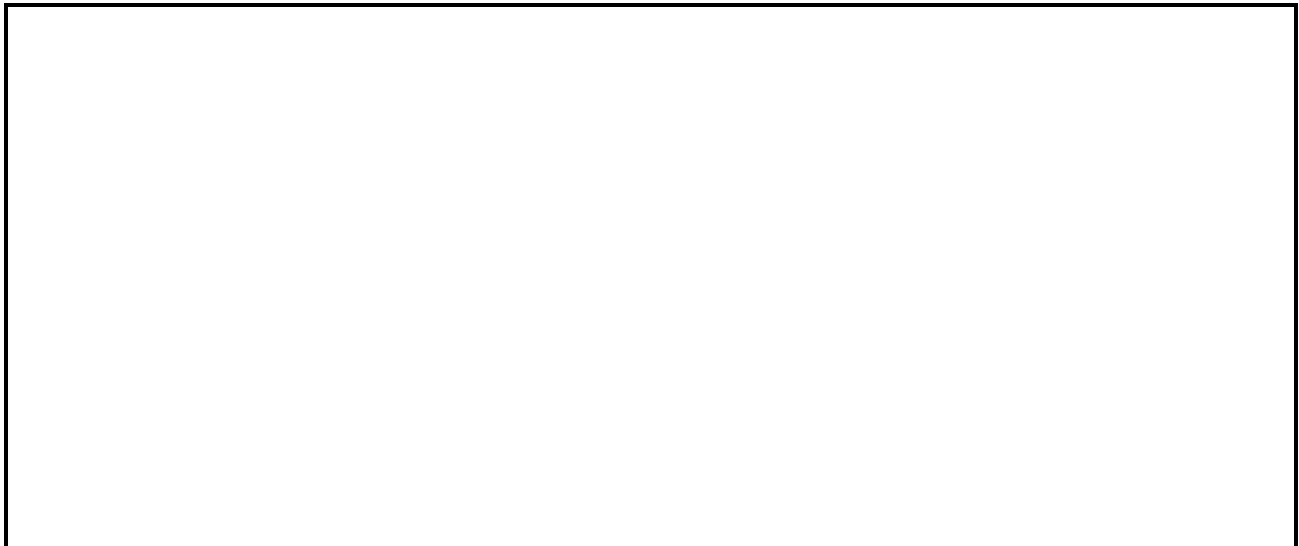
## TESTING & REPAIR

### REMOVE/INSTALL FRONT FENDER - AR88.10-P-1005FR

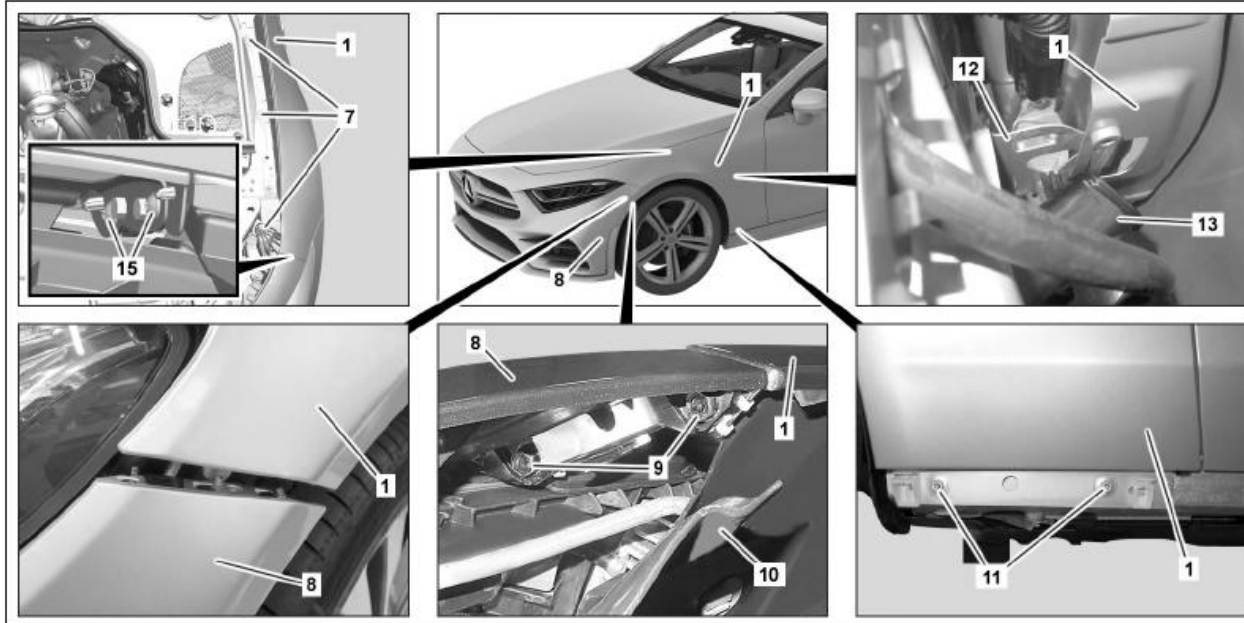
Model 257, 290



Shown on model 257 on left side of vehicle



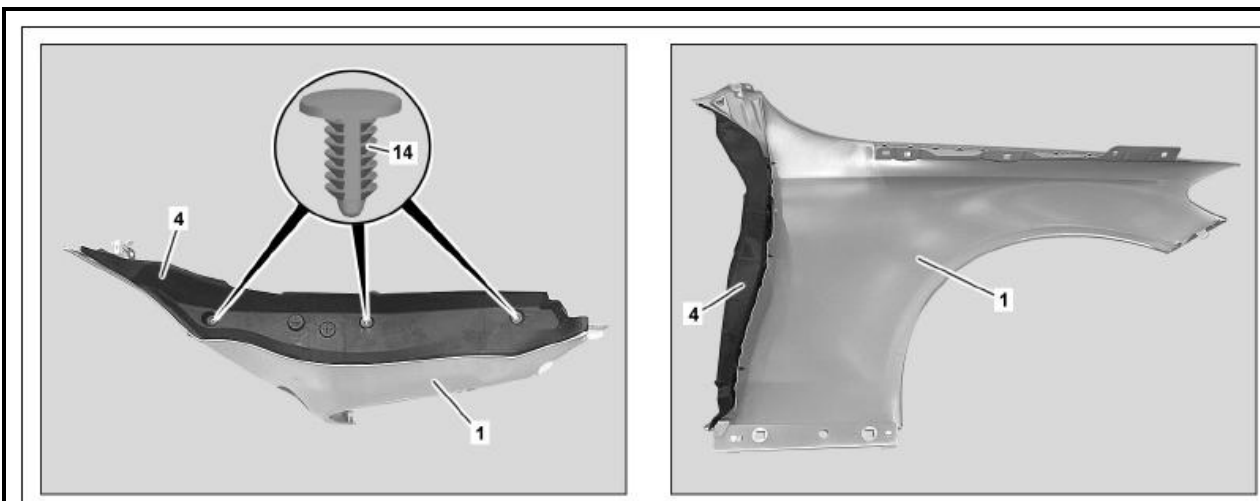




P88.10-2347-09


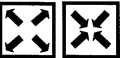







- |    |              |    |                                    |
|----|--------------|----|------------------------------------|
| 1  | Fender       | 11 | Nuts                               |
| 7  | Bolts        | 12 | Bracket                            |
| 8  | Front bumper | 13 | Windshield washer system reservoir |
| 9  | Bolts        | 15 | Bolts                              |
| 10 | Fender liner |    |                                    |







Shown on model 257 on left side of vehicle





P88.10-2296-08

- |   |        |    |      |
|---|--------|----|------|
| 1 | Fender | 14 | Plug |
| 4 | Cover  |    |      |

 <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>
	<b>Remove/install</b>	Â	Â
1	Remove longitudinal member panel.	 <b>Installation</b> Reinstall longitudinal member paneling only after adjusting fender (1).	<a href="#">AR88.80-P-6000FR</a>
2	Open engine hood and position upright.	Â	Â
3	Release drip rail (2) in the area of the fender (1).	Â	Â
4	Remove screw (3).	 Front door not completely open. Screw (3) is located behind the cover (4).  <b>Installation</b> Screw in screw (3) only until it makes contact. It is screwed in after adjusting fender (1).	Â
5	Remove screw (5).	 Front door not completely open.  <b>Installation</b> Screw in bolt (5) only to stop. It is screwed in after adjusting fender (1).	Â
6	Unscrew screw/bolt (6).	When removing left fender (1).  Front door not completely open.  <b>Installation</b> Screw in screw (6) only until it makes contact. It is screwed in after adjusting fender (1).	Â
7	Release fender liner (10) until the screws (9) are accessible.	Â	<a href="#">AR88.10-P-1301FR</a>
8	Remove screws/bolts (9).	Â	Â

9	Unscrew nuts (11).	 <b>Installation</b> Unscrew nuts (11) only until end stop. They are tightened after adjusting fender (1).	Â
10	Unscrew screws (7).	 <b>Installation</b> Screw in nuts (7) only to stop. They are tightened after adjusting fender (1).	Â
11	Remove screws (15).	 <b>Installation</b> Screw in screws (15) only to stop. They are tightened after adjusting fender (1).	Â
12	Mask off front door, A-pillar, and front bumper (8) in the area of the fender (1) with tape.	Â	Â
13	Guide fender (1) out of the front bumper (8).	Â	Â
14	Unhook fender (1) at the bottom from the threaded pins of the nuts (11).	Â	Â
15	Push fender (1) toward the rear against the bracket (12) and remove to the side.	When removing left fender (1).  <b>Installation</b> Insert fender (1) between bracket (12) and windshield washer system reservoir (13).	Â
16	Remove fender (1) to the side.	When removing right fender (1).	Â
17	Remove grommets (14) and remove cover (4) from fender (1).	When replacing to (1).  Dismantling tool	<a href="#">Fig. 2</a>
18	Change trim element on fender (1).	Model 290 When replacing to (1).	Â
Â	<b>Adjust</b>	Â	Â
19	Adjust fender (1); tighten screws (5, 6, 7, 15) and nuts (11).	 <b>Installation</b> Repair paint damage in the area of the screws (5, 6, 7, 15) and nuts (11). Model 290 Front door to fender	<a href="#">*BE60.00-P-1009-01KA</a>
Â	Â	Model 290 Fender to headlamp	<a href="#">*BE60.00-P-1005-01KA</a>
Â	Â	Model 290 Bumper to fender	<a href="#">*BE60.00-P-1004-01KA</a>
Â	Â	Model 290 Engine hood to	<a href="#">*BE60.00-P-1001-01KA</a>

Â	Â	fender	
Â	Â	Model 257.3 Engine hood to fender	<a href="#">*BE60.00-P-1001-01IA</a>
Â	Â	Model 257.3 Bumper to fender	<a href="#">*BE60.00-P-1003-01IA</a>
Â	Â	Model 257.3 Fender to headlamp	<a href="#">*BE60.00-P-1004-01IA</a>
Â	Â	Model 257.3 Front door to fender	<a href="#">*BE60.00-P-1008-01IA</a>
Â	Â	 Feeler gauge	<a href="#">Fig. 1</a>
20	Tighten screw (3).	 <b>Installation</b> Repair paint damage in the area of screw (3).	Â
21	Install in the reverse order.	Â	Â

#### GAP DIMENSIONS

Number	Designation	Model 257.3
BE60.00-P-1001-01IA	Engine hood to fender	Dimension "A" mm 3 ( $\hat{A} \pm 0, 5$ )
		For picture, see <a href="#">AR60.00-P-0700-01FR</a>

#### GAP DIMENSIONS

Number	Designation	Model 290
BE60.00-P-1001-01KA	Engine hood to fender	Dimension "A" mm 3 ( $\hat{A} \pm 0, 5$ )
		For picture, see AR60.00-P-0900-01FRX

#### GAP DIMENSIONS

Number	Designation	Model 257.3
BE60.00-P-1003-01IA	Bumper to fender	Dimension "C" mm 0 + 0, 5
		For picture, see <a href="#">AR60.00-P-0700-01FR</a>

#### GAP DIMENSIONS

Number	Designation	Model 257.3
BE60.00-P-1004-01IA	Fender to headlamp	Dimension "D" mm 2 ( $\hat{A} \pm 1, 5$ )
		For picture, see <a href="#">AR60.00-P-0700-01FR</a>

#### GAP DIMENSIONS

Number	Designation	Model 290
BE60.00-P-1004-01KA	Bumper to fender	Dimension "C" mm 0 ( $\hat{A} \pm 0, 5$ )
		For picture, see AR60.00-P-0900-01FRX

#### GAP DIMENSIONS

Number	Designation	Model 290
BE60.00-P-1005-01KA	Fender to headlamp	Dimension "D" mm 2 ( $\hat{A} \pm 1, 5$ )
		For picture, see AR60.00-P-0900-01FRX

#### GAP DIMENSIONS

Number	Designation	Model 257.3	
BE60.00-P-1008-01IA	Front door to fender	Dimension "F"	mm 4 (Â± 0, 5)
		For picture, see	<a href="#">AR60.00-P-0700-01FR</a>

**GAP DIMENSIONS**

Number	Designation	Model 290	
BE60.00-P-1009-01KA	Front door to fender	Dimension "F"	mm 4 (Â± 0, 5)
		For picture, see	AR60.00-P-0900-01FRX

**Fig. 1: Identifying Feeler Gauge (129 589 03 21 00)**

Courtesy of MERCEDES-BENZ USA

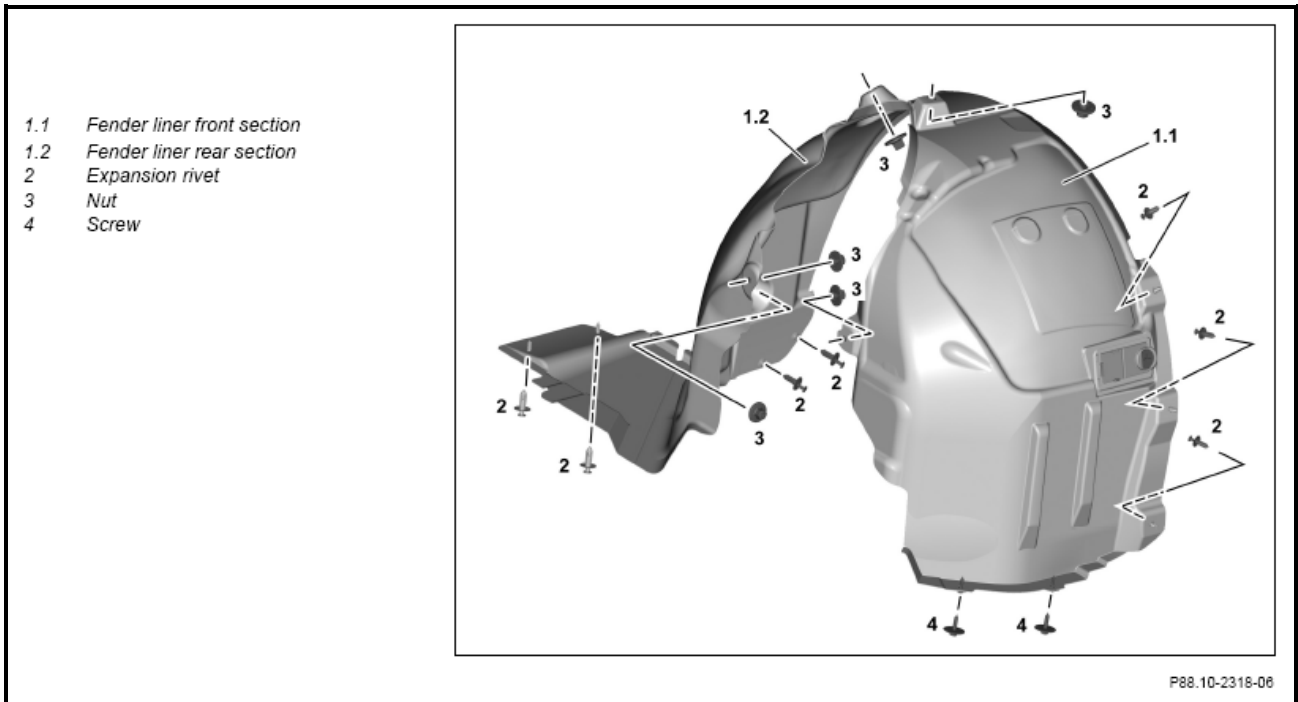
**Fig. 2: Identifying Dismantling Tool (000 589 95 63 00)**

Courtesy of MERCEDES-BENZ USA

**REMOVE/INSTALL FRONT FENDER LINER - AR88.10-P-1301FR**

Model 257, 290

Shown on left side of vehicle

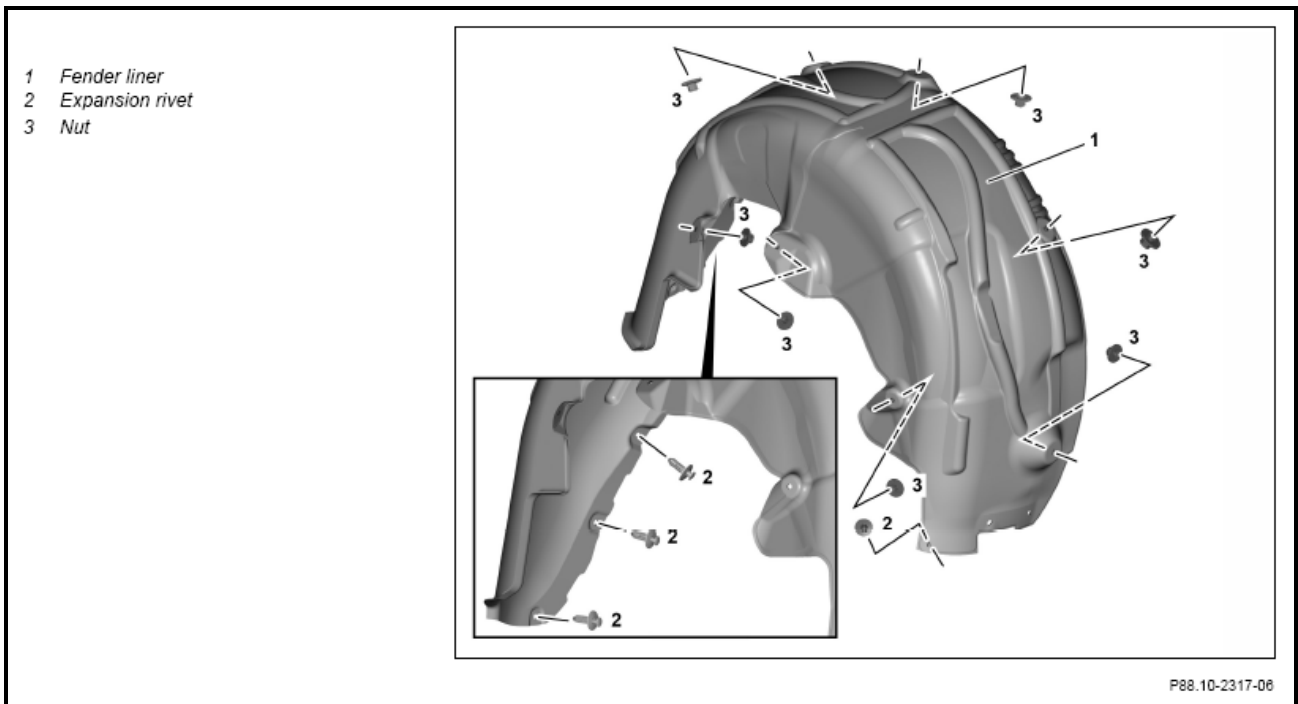


	Remove/install	Â	Â
1	Raise vehicle.	Â	<a href="#">AR00.60-P-1006A</a>
2	Unscrew screw/bolts (4).	Â	Â
			The number

3	Remove expansion rivets (2).	of expansion rivets (2) can vary.	Â
4	Unscrew nuts (3).	<b>i</b> The number of nuts (3) can vary.	Â
5	Pull outer edges of the fender liner front section (1.1) and fender liner rear section (1.2) inward out of the wheel arch lip and remove fender liner front section (1.1) and fender liner rear section (1.2).	Â	Â
6	Install in the reverse order.	Â	Â

**REMOVE/INSTALL REAR FENDER LINER - AR88.10-P-1302FR**

**Model 257, 290**



	<b>Remove/install</b>	Â	Â
1	Raise vehicle.	Â	<a href="#">AR00.60-P-1006A</a>
2	Remove expansion rivets (2).	Â	Â
3	Unscrew nuts (3).	Â	Â
4	Pull outer edge of the fender liner (1) inward out of the wheel arch lip and remove fender liner (1).	Â	Â
5	Install in the reverse order.	Â	Â

**REMOVE/INSTALL FRONT BUMPER - AR88.20-P-2000FR**

**Model 257, 290**

**Shown on model 257**

- 1 Front bumper
- 2 Screw
- 3 Screw
- B14 Outside temperature sensor
- X26/38 Front bumper electrical connector

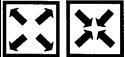





P88.20-4827-06

**Shown on model 257**



- 1 Front bumper
- 4 Bolts
- 5 Catch hook
- 6 Bolts
- 7 Bolts

P88.20-4828-06

Topical note	Information on preventing damage to electronic components due to electrostatic discharge	Â	<a href="#">AH54.00-P-0001-01A</a>
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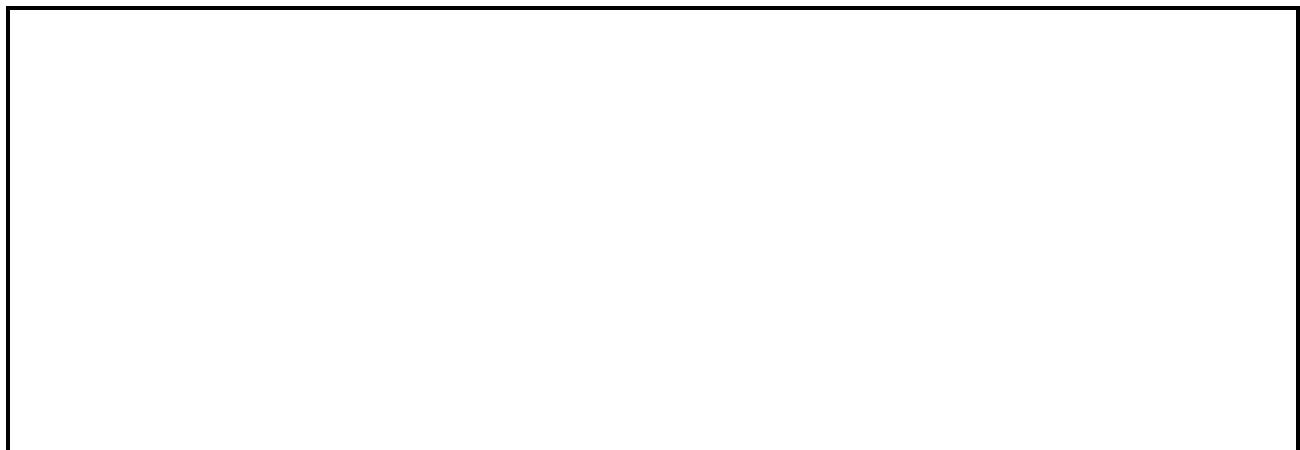
	Remove/install	^	^
1	Disconnect ground line from battery.	^	<a href="#">AR54.10-P-0003FR</a>
2	Remove front engine compartment linings.	Model 290 Model 257	AR61.20-P-1105FRX <a href="#">AR61.20-P-1105FR</a>
3	Remove front left and right fender liner in fender from front bumper (1).	^	<a href="#">AR88.10-P-1301FR</a>
4	Remove screws (2) on left and right from front bumper (1).	^	^
5	Remove screws (3) on left and right from front bumper (1).	^	^
6	Disconnect front bumper electrical connector (X26/38).	^	^
7	Remove outside temperature sensor (B14) from front bumper (1).	^	^
8	Disconnect electrical connector from front 360° camera.	Model 257, 290 with code 501 (360° camera)	^
9	Remove screws (4) on left and right from front bumper (1).	^	^
10	Unscrew screws (7).	 <b>Installation</b> Tighten bolts (7) only after adjusting the gap dimensions.	^
11	Remove screw/bolts (6).	 <b>Installation</b> Tighten screws (6) only after adjusting the gap dimensions.	^
12	Release catch hooks (5) and guide out front bumper (1).	 <b>Installation</b> Press in catch hooks (5) only to first catch.	^
13.1	Disconnect electrical connector from Mercedes star.	Model 257, 290 with code 233 (DISTRONIC PLUS) Model 257, 290 with code 239 (DISTRONIC PLUS)	^
13.2	Disconnect electrical connector from radar sensor.	Model 257, 290 with code 258 (Active Brake Assist System)	^
14	Remove front bumper (1).	 Helper required.	^
	<b>Check</b>	^	^
			<a href="#">AH88.20-</a>

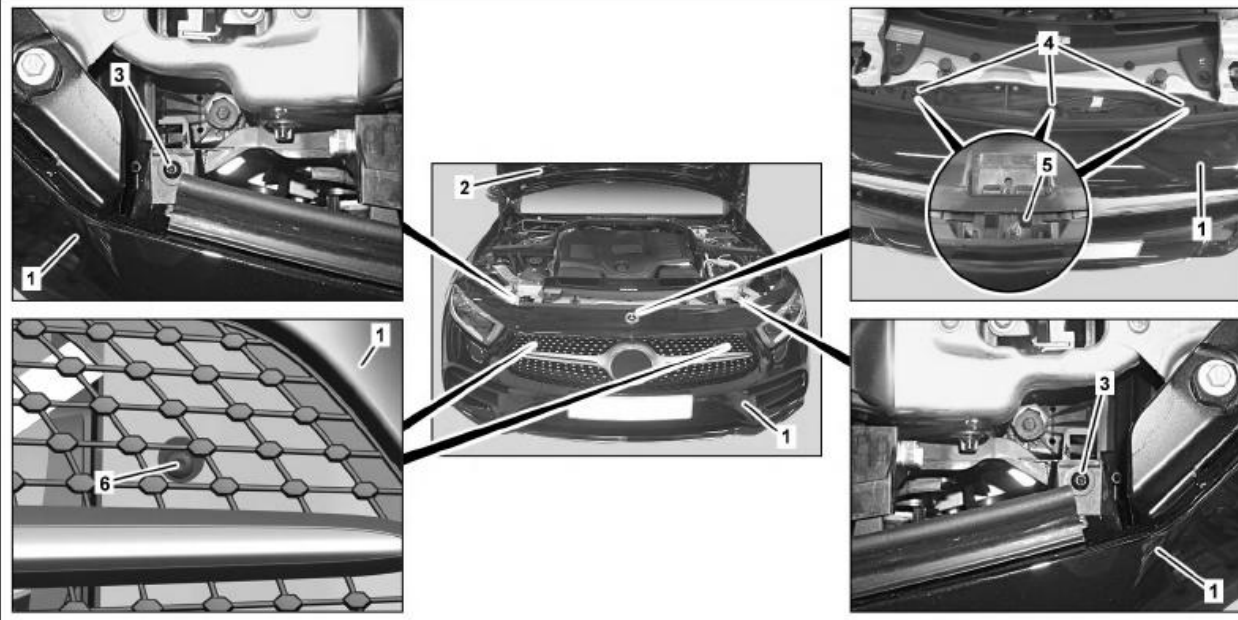


Topical note	General information on the impact absorber	Â	<a href="#">P-1000-01A</a>
15.1	Check impact absorber for damage.	Model 257, 290 except code U60 (Active Bonnet (Pedestrian protection)) If there is a problem on the impact absorber, ↓ Replace impact absorber.	Â
15.2	Check pedestrian protection sensor and impact absorber for damage of any kind (cracks, holes, breakovers, etc.).	Model 257, 290 with code U60 (Active Bonnet (Pedestrian protection)) If there is a problem, ↓ replace impact absorber or pedestrian protection sensor.	Â
Topical note	Notes on pedestrian protection sensor		<a href="#">AH91.60-P-0001-01A</a>
Â	Â	Â	<a href="#">AR91.60-P-0950FR</a>
16	Install in the reverse order.	Â	Â
17	Set gap dimensions at front bumper (1).	Â	<a href="#">AR88.20-P-2001FR</a>
18	Calibrate front 360Â° camera with vehicle diagnosis system.	Model 257, 290 with code 501 (360Â° camera)	Â
 AD	Â	Â	<a href="#">AD00.00-P-2000-06FR</a>
19	Calibrate Active Brake Assist controller unit with vehicle diagnosis system.	Model 257, 290 with code 258 (Active Brake Assist System)	Â
 AD	Â	Â	<a href="#">AD00.00-P-2000-06FR</a>

**ADJUST FRONT BUMPER - AR88.20-P-2001FR**

**Model 257, 290**






P88.20-4829-09




1 Front bumper  
2 Engine hood  
3 Screw

4 Bolts  
5 Catch  
6 Screw

Shown on model 257

<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>
<b>Check</b>	<b>Check</b>	Â	Â
1	Check adjustment of front bumper (1).	Model 290 Protrusion of radiator trim/soft nose, engine hood	<a href="#">*BE60.00-P-1003-01KA</a>
Â	Â	Model 290 Bumper to headlamp at top	<a href="#">*BE60.00-P-1008-01KA</a>
Â	Â	Model 290 Bumper to headlamp, side	<a href="#">*BE60.00-P-1007-01KA</a>
Â	Â	Model 290 Bumper to headlamp at bottom	<a href="#">*BE60.00-P-1006-01KA</a>
Â	Â	Model 290 Engine hood to bumper	<a href="#">*BE60.00-P-1002-01KA</a> <a href="#">*BE60.00-</a>

Â	Â	Model 257.3 Engine hood to bumper	<a href="#">P-1002-011A</a>
Â	Â	Model 257.3 Bumper to headlamp at bottom	<a href="#">*BE60.00-P-1005-011A</a>
Â	Â	Model 257.3 Bumper to headlamp, side	<a href="#">*BE60.00-P-1006-011A</a>
Â	Â	Model 257.3 Bumper to headlamp at top	<a href="#">*BE60.00-P-1007-011A</a>
Â	Â	Model 257.3 Protrusion of radiator trim/soft nose, engine hood	<a href="#">*BE60.00-P-1020-011A</a>
Â	Â	 Feeler gauge	<a href="#">Fig. 3</a>
Â	<b>Adjust</b>	Â	Â
2	Open hood (2).	Â	Â
3	Loosen screws (3, 4).	Â	Â
4	Release front bumper (1) from arrests (5) and pull toward front.	Â	Â
5	Release screws (6).	Model 257	Â
6	Close hood (2).	Â	Â
7	Adjust front bumper (1) in relation to hood (2) and headlamps.	Model 290 Protrusion of radiator trim/soft nose, engine hood	<a href="#">*BE60.00-P-1003-01KA</a>
Â	Â	Model 290 Bumper to headlamp at top	<a href="#">*BE60.00-P-1008-01KA</a>
Â	Â	Model 290 Bumper to headlamp, side	<a href="#">*BE60.00-P-1007-01KA</a>
Â	Â	Model 290 Bumper to headlamp at bottom	<a href="#">*BE60.00-P-1006-01KA</a>
Â	Â	Model 290 Engine hood to bumper	<a href="#">*BE60.00-P-1002-01KA</a>
Â	Â	Model 257.3 Engine hood to bumper	<a href="#">*BE60.00-P-1002-011A</a>
Â	Â	Model 257.3 Bumper to headlamp at bottom	<a href="#">*BE60.00-P-1005-011A</a>
Â	Â	Model 257.3 Bumper to headlamp, side	<a href="#">*BE60.00-P-1006-011A</a>

Â	Â	Model 257.3 Bumper to headlamp at top	<a href="#">*BE60.00-P-1007-01IA</a>
Â	Â	Model 257.3 Protrusion of radiator trim/soft nose, engine hood	<a href="#">*BE60.00-P-1020-01IA</a>
Â	Â	 Feeler gauge	<a href="#">Fig. 3</a>
8	Open hood (2).	Â	Â
9	Tighten screws (3, 4).	Â	Â
10	Tighten screws (6).	Model 257	Â
11	Close hood (2).	Â	Â
Â	<b>Calibrate</b>	Â	Â
12	Calibrate 360Â° camera with vehicle diagnosis system.	Model 257, 290 with code 501 (360Â° camera)	Â
	Â	Â	<a href="#">AD00.00-P-2000-06FR</a>
13	Calibrate Active Brake Assist controller unit with vehicle diagnosis system.	Model 257, 290 with code 258 (Active Brake Assist System)	Â
	Â	Â	<a href="#">AD00.00-P-2000-06FR</a>

#### GAP DIMENSIONS

Number	Designation	Model 257.3
BE60.00-P-1002-01IA	Engine hood to bumper	Dimension "B" mm 3, 5 (Â± 0, 5)
		For picture, see <a href="#">AR60.00-P-0700-01FR</a>

#### GAP DIMENSIONS

Number	Designation	Model 290
BE60.00-P-1002-01KA	Engine hood to bumper	Dimension "B" mm 3, 5 (Â± 0, 5)
		For picture, see AR60.00-P-0900-01FRX

#### GAP DIMENSIONS

Number	Designation	Model 290
BE60.00-P-1003-01KA	Protrusion of radiator trim/soft nose, engine hood	Dimension "B1" mm 1 (Â± 0, 5)
		For picture, see AR60.00-P-0900-01FRX

#### GAP DIMENSIONS

Number	Designation	Model 257.3
BE60.00-P-1005-01IA	Bumper to headlamp at bottom	Dimension "E1" mm 2 (Â± 0, 5)
		For picture, see <a href="#">AR60.00-P-0700-01FR</a>

**GAP DIMENSIONS**

Number	Designation	Model 257.3
BE60.00-P-1006-01IA	Bumper to headlamp, side	Dimension "E2" mm 3 ( $\hat{A} \pm 1, 5$ )
		For picture, see <a href="#">AR60.00-P-0700-01FR</a>

**GAP DIMENSIONS**

Number	Designation	Model 290
BE60.00-P-1006-01KA	Bumper to headlamp at bottom	Dimension "E1" mm 2, 0 ( $\hat{A} \pm 1, 0$ )
		For picture, see AR60.00-P-0900-01FRX

**GAP DIMENSIONS**

Number	Designation	Model 257.3
BE60.00-P-1007-01IA	Bumper to headlamp at top	Dimension "E3" mm 4 ( $\hat{A} \pm 2, 0$ )
		For picture, see <a href="#">AR60.00-P-0700-01FR</a>

**GAP DIMENSIONS**

Number	Designation	Model 290
BE60.00-P-1007-01KA	Bumper to headlamp, side	Dimension "E2" mm 3 ( $\hat{A} \pm 1, 5$ )
		For picture, see AR60.00-P-0900-01FRX

**GAP DIMENSIONS**

Number	Designation	Model 290
BE60.00-P-1008-01KA	Bumper to headlamp at top	Dimension "E3" mm 4, 5 ( $\hat{A} \pm 2, 0$ )
		For picture, see AR60.00-P-0900-01FRX

**GAP DIMENSIONS**

Number	Designation	Model 257.3
BE60.00-P-1020-01IA	Protrusion of radiator trim/soft nose, engine hood	Dimension "B1" mm 1 ( $\hat{A} \pm 0, 5$ )
		For picture, see <a href="#">AR60.00-P-0700-01FR</a>

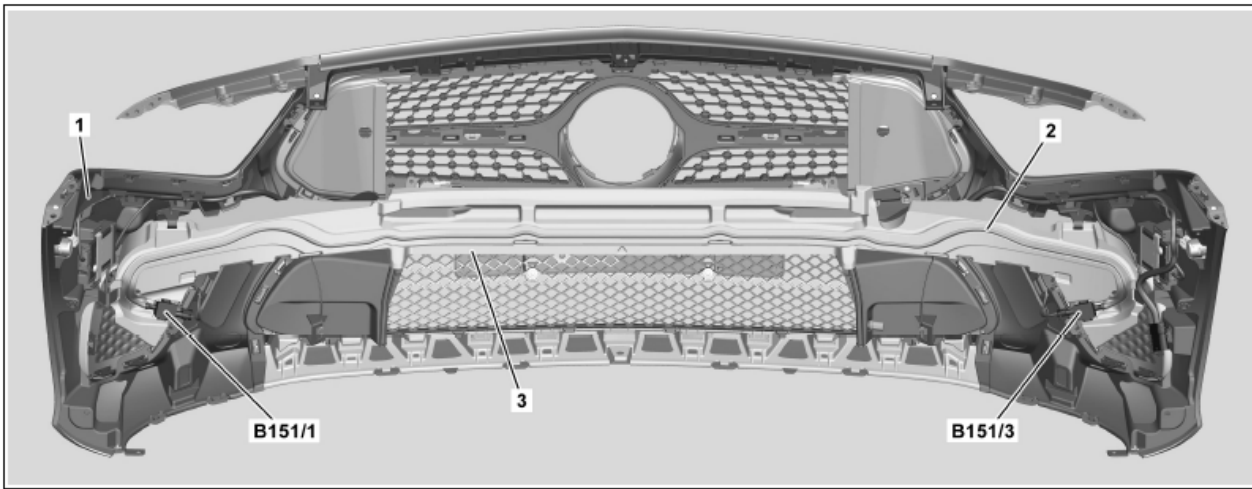
**Fig. 3: Identifying Feeler Gauge (129 589 03 21 00)**

Courtesy of MERCEDES-BENZ USA

**DISASSEMBLE/ASSEMBLE FRONT BUMPER - AR88.20-P-2050FR**

Model 257

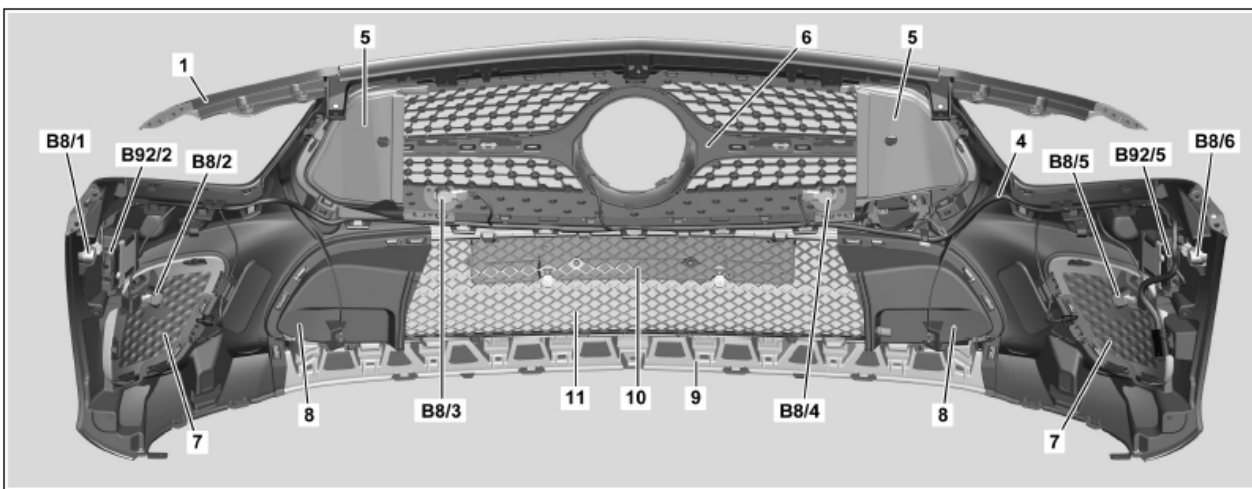




P91.60-5228-08

- |   |              |        |                                                |        |                                                 |
|---|--------------|--------|------------------------------------------------|--------|-------------------------------------------------|
| 1 | Front bumper | 3      | Impact absorber                                | B151/2 | Right front bumper pedestrian protection sensor |
| 2 | Hose         | B151/1 | Left front bumper pedestrian protection sensor |        |                                                 |








Shown with code 292 (PRE-SAFE<sup>®</sup> Impulse side) and with code U60 (Active hood (pedestrian protection))






P88.20-4842-08

- |   |                           |      |                                                  |       |                                                  |
|---|---------------------------|------|--------------------------------------------------|-------|--------------------------------------------------|
| 1 | Front bumper              | 9    | Reinforcement                                    | B8/4  | Inner left front parking system distance sensor  |
| 4 | Electrical wiring harness | 10   | License plate bracket                            | B8/5  | Center left front parking system distance sensor |
| 5 | Air duct segment          | 11   | Vent grille                                      | B8/6  | Outer left front parking system distance sensor  |
| 6 | Radiator trim             | B8/1 | Outer left front parking system distance sensor  | B92/2 | Left outer front bumper radar sensor             |
| 7 | Cover                     | B8/2 | Center left front parking system distance sensor | B92/5 | Right outer front bumper radar sensor            |
| 8 | Air duct segment          | B8/3 | Inner left front parking system distance sensor  |       |                                                  |

Shown with code 235 (Active Parking Assist with PARKTRONIC) and code 292 (PRE-SAFE® Impulse side)

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 front bumper (1)	Â	<a href="#">AR88.20-P-2000FR</a>
	<b>Disassemble/assemble</b>	Â	Â
2.1	Remove impact absorber (3) from front bumper (1)	Model 257 except code U60 (Pedestrian protection - Active hood)	Â
Topical note	General information on the impact absorber	Â	<a href="#">AH88.20-P-1000-01A</a>
2.2	Remove front bumper pedestrian protection sensors (B151/1, B151/2) together with impact absorber (3) from front bumper (1)	Model 257 with code U60 (Pedestrian protection - Active hood)	<a href="#">AR91.60-P-0950FR</a>
3	Remove outer front bumper radar sensors (B92/2, B92/5)	Model 257 with code 292 (PRE-SAFE® Impulse Side)	<a href="#">AR54.21-P-0703FR</a>
4	Remove Active Brake Assist controller unit	Model 257 up to model year 2021 with code 258 (Active Brake Assist System)	<a href="#">AR54.21-P-0700FR</a>
5	Remove parking system distance sensors (B8/1, B8/2, B8/3, B8/4, B8/5, B8/6) from front bumper (1)	Model 257 with code 235 (Active Parking Assist)  Do not disconnect electrical connectors.	<a href="#">AR54.65-P-0001FR</a>
6	Remove electrical wiring harness (4) together with connected component parts	Â	Â
7	Remove air duct segments (5)	Â	Â
8	Drill out rivets on radiator grille (6)	Â	Â
9	Remove radiator trim (6)	 Long wedge	<a href="#">Fig. 4</a>
10	Drill out rivets on air duct segments (8)	Â	Â
11	Remove air duct segments (8)	 Long wedge	<a href="#">Fig. 4</a>
12	Remove covers (7)	 Long wedge	<a href="#">Fig. 4</a>
13	Remove reinforcement (9)	 Long wedge	<a href="#">Fig. 4</a>

14	Remove license plate bracket (10)	^	^
15	Remove vent grille (11)	 Long wedge	<a href="#">Fig. 4</a>
16	Remove lower trim piece	 Long wedge	<a href="#">Fig. 4</a>
17	Assemble in the reverse order	^	^
	<b>Install</b>	^	^
18	Install front bumper (1)	^	<a href="#">AR88.20-P-2000FR</a>

**[Fig. 4: Identifying Long Wedge \(115 589 03 59 00\)](#)**

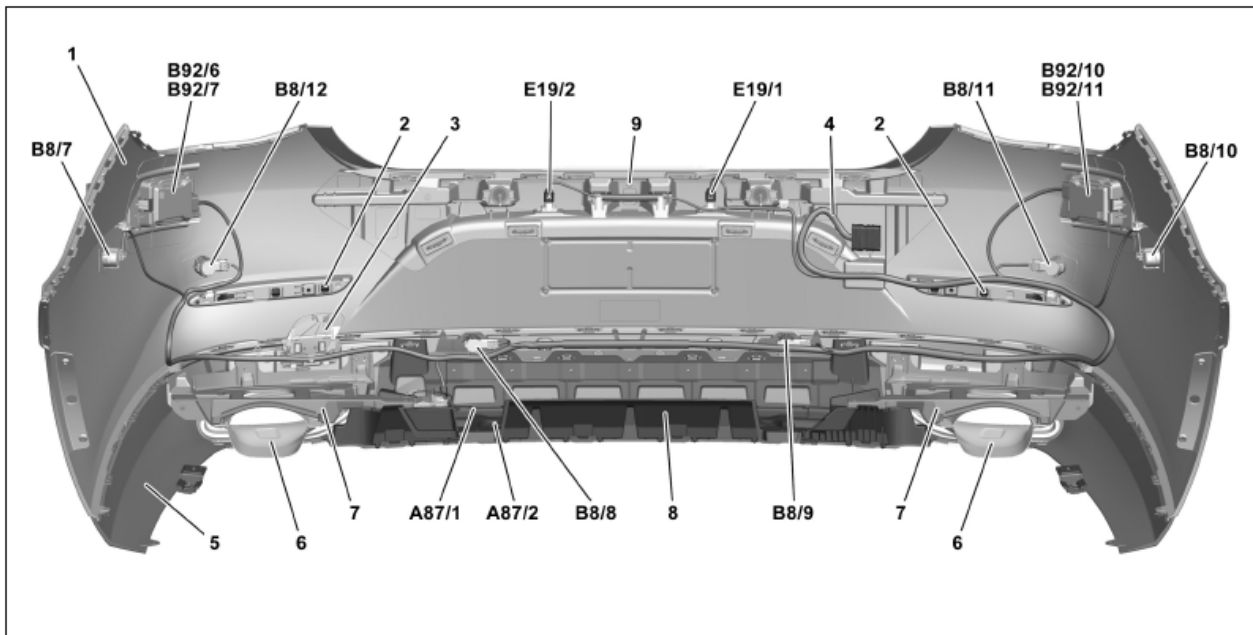
Courtesy of MERCEDES-BENZ USA

**DISASSEMBLE/ASSEMBLE REAR BUMPER - AR88.20-P-2100FR**

**Model 257**

















P88.20-4849-09

- |       |                                                 |        |                                                                                     |
|-------|-------------------------------------------------|--------|-------------------------------------------------------------------------------------|
| 1     | Rear bumper                                     | B8/8   | Inner right rear parking system distance sensor                                     |
| 2     | Reflector                                       | B8/9   | Inner left rear parking system distance sensor                                      |
| 3     | Tow eye cover                                   | B8/10  | Outer left rear parking system distance sensor                                      |
| 4     | Electrical wiring harness                       | B8/11  | Center left rear parking system distance sensor                                     |
| 5     | Rear apron                                      | B8/12  | Center right rear parking system distance sensor                                    |
| 6     | Cover                                           | B92/6  | Integrated outer right rear bumper radar sensor (with code 234 (Blind Spot Assist)) |
| 7     | Reinforcement                                   | B92/7  | Right rear outer bumper radar sensor (with code 233 (DISTRONIC PLUS))               |
| 8     | Bracket                                         | B92/10 | Left rear outer bumper radar sensor (with code 233 (DISTRONIC PLUS))                |
| 9     | Reinforcement                                   | B92/11 | Integrated outer left rear bumper radar sensor (with code 234 (Blind Spot Assist))  |
| A87/1 | Rear switching module upper sensor              | E19/1  | Left license plate lamp                                                             |
| A87/2 | Rear switching module lower sensor              | E19/2  | Right license plate lamp                                                            |
| B8/7  | Outer right rear parking system distance sensor |        |                                                                                     |

Shown with code 235 (Active Parking Assist with PARKTRONIC), code 234 (Blind Spot Assist) and with code P17 (KEYLESS-GO Package)

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 rear bumper (1)	Â	<a href="#">AR88.20-P-2200FR</a>
	<b>Disassemble/assemble</b>	Â	Â
2	Remove license plate lamps (E19/1, E19/2)	Â	<a href="#">AR82.10-P-5161FR</a>

3	Remove rear bumper radar sensors (B92/6, B92/7, B92/10, B92/11)	Model 257 with code 233 (DISTRONIC PLUS) Model 257 with code 234 (Blind Spot Monitoring)	<a href="#">AR54.21-P-0704FR</a>
4	Remove rear switch module upper sensor (A87/1) and rear switch module lower sensor (A87/2) with bracket (8)	Model 257 with code P17 (KEYLESS-GO package)	<a href="#">AR80.61-P-0012FR</a>
5	Remove parking system distance sensors (B8/7, B8/8, B8/9, B8/10, B8/11, B8/12) from rear bumper (1)	Model 257 with code 235 (Active Parking Assist with PARKTRONIC)  Do not disconnect electrical connectors.	<a href="#">AR54.65-P-0002FR</a>
6	Remove electrical wiring harness (4) together with connected component parts	Â	Â
7	Remove reflectors (2)	 Long wedge	<a href="#">Fig. 5</a>
8	Remove towing eye cap (3)	 Long wedge	<a href="#">Fig. 5</a>
9	Drill off rivets at reinforcements (7)	Â	Â
10	Remove reinforcements (7) with covers (6)	 Long wedge	<a href="#">Fig. 5</a>
11	Remove reinforcements (9)	 Long wedge	<a href="#">Fig. 5</a>
12	Remove trim elements	 Long wedge	<a href="#">Fig. 5</a>
13	Drill out rivets of rear apron (5)	Â	Â
14	Remove rear apron (5)	 Long wedge	<a href="#">Fig. 5</a>
15	Assemble in the reverse order	Â	Â
	<b>Install</b>	Â	Â
16	Install rear bumper (1)	Â	<a href="#">AR88.20-P-2200FR</a>

**Fig. 5: Identifying Long Wedge (115 589 03 59 00)**

Courtesy of MERCEDES-BENZ USA

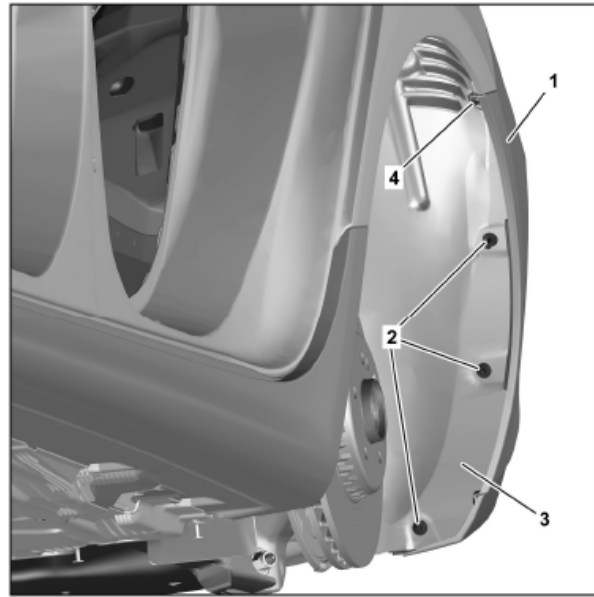
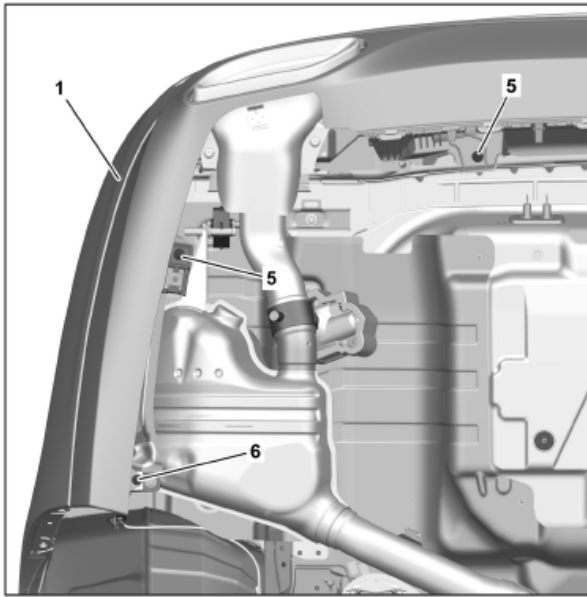
**REMOVE/INSTALL REAR BUMPER - AR88.20-P-2200FR**

**Model 257**

**MODIFICATION NOTES**

25.06.2021	Picture added.	P88.20-A137-81	Â
25.06.2021	Method extended.	Operation step 6.	Â

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P88.20-4843-09

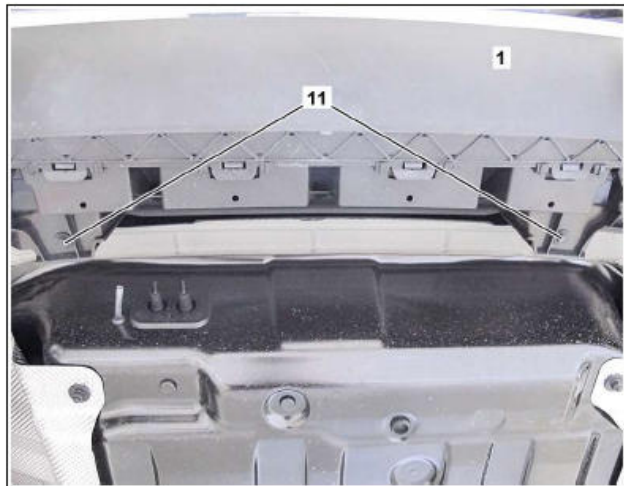
1 Rear bumper  
2 Expansion rivet

3 Fender liner  
4 Screw

5 Screw  
6 Expansion rivet

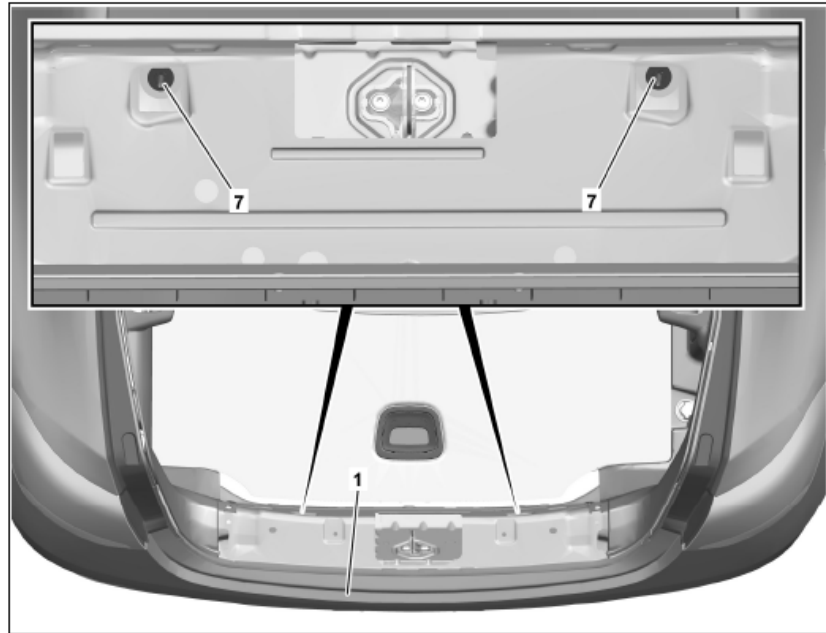
**Shown with engine 256 at left side of vehicle**

1 Rear bumper  
11 Bolts



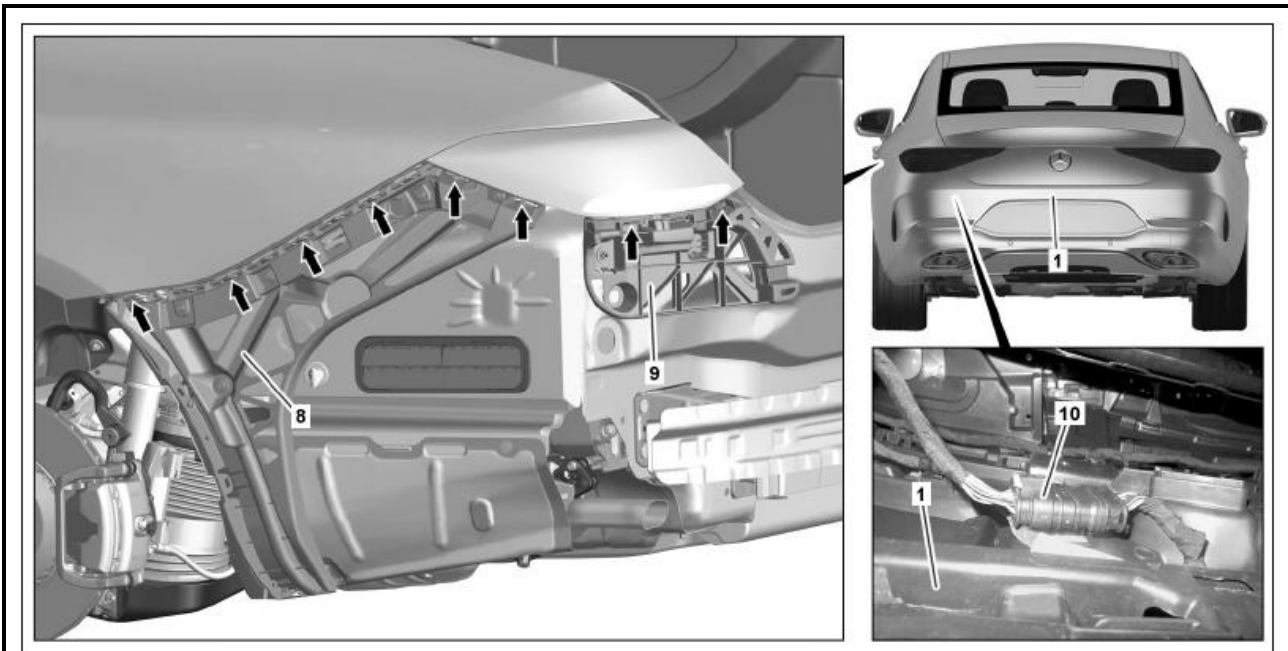
P88.20-A137-81

- 1 Rear bumper
- 7 Nut



P88.20-4844-06

Shown on the left side of vehicle



P88.20-4845-09

- 1 Rear bumper
- 8 Bracket

- 9 Bracket

- 10 Electrical connector

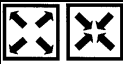








**WARNING!**

**Risk of injury** caused by fingers being jammed or pinched when removing, installing or aligning hoods, doors, trunk lid/rear-end door

No parts of the body or limbs should be within the operating area when the components are

**AS00.00-  
Z-0011-  
01A**

	or sliding roof.	moving.	
Notice	Information on preventing damage to electronic components due to electrostatic discharge	Â	<a href="#">AH54.00-P-0001-01A</a>
Â	Notes on HANDS-FREE ACCESS	Â	<a href="#">AH80.61-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	Raise vehicle.	Â	<a href="#">AR00.60-P-1006A</a>
3	Remove expansion rivets (2) from left and right fender liner (3).	 Clip remover	<a href="#">Fig. 6</a>
4	Unscrew screw (4) on left and right at rear bumper (1)	Â	Â
5	Unscrew screws (5) on left and right at rear bumper (1).	Â	Â
6	Remove screws (11).	Â	Â
7	Remove left and right expansion rivet (6) from rear bumper (1).	 Clip remover	<a href="#">Fig. 6</a>
8	Remove rear-end center-section trim.	Â	<a href="#">AR68.30-P-4786FR</a>
9	Remove nuts (7).	 <b>Commercially available devices/tools</b> Tubular socket wrench (size 10 mm, overall length 160 mm)	Â
10	Unclip left and right rear bumper (1) from the brackets (8, 9) in the top area (arrows).	 Carefully unclip rear bumper (1). Rear lamps or rear fenders may otherwise be damaged.	Â
11	Remove rear bumper (1) until electrical connector (10) can be accessed.	 Aid of helper required.	Â
12	Disconnect electrical connector (10).	Â	Â
13	Remove rear bumper (1).	Â	Â
14	Install in the reverse order.	Â	Â
15	Calibrate radar sensors in the rear bumper (1) with the vehicle diagnosis system.	Model 257 with code 233 (Adaptive cruise control Plus (DISTRONIC PLUS)) Model 257 with code 234 (Blind Spot Assist)	Â
	Â	Â	<a href="#">AD00.00-P-2000-</a>

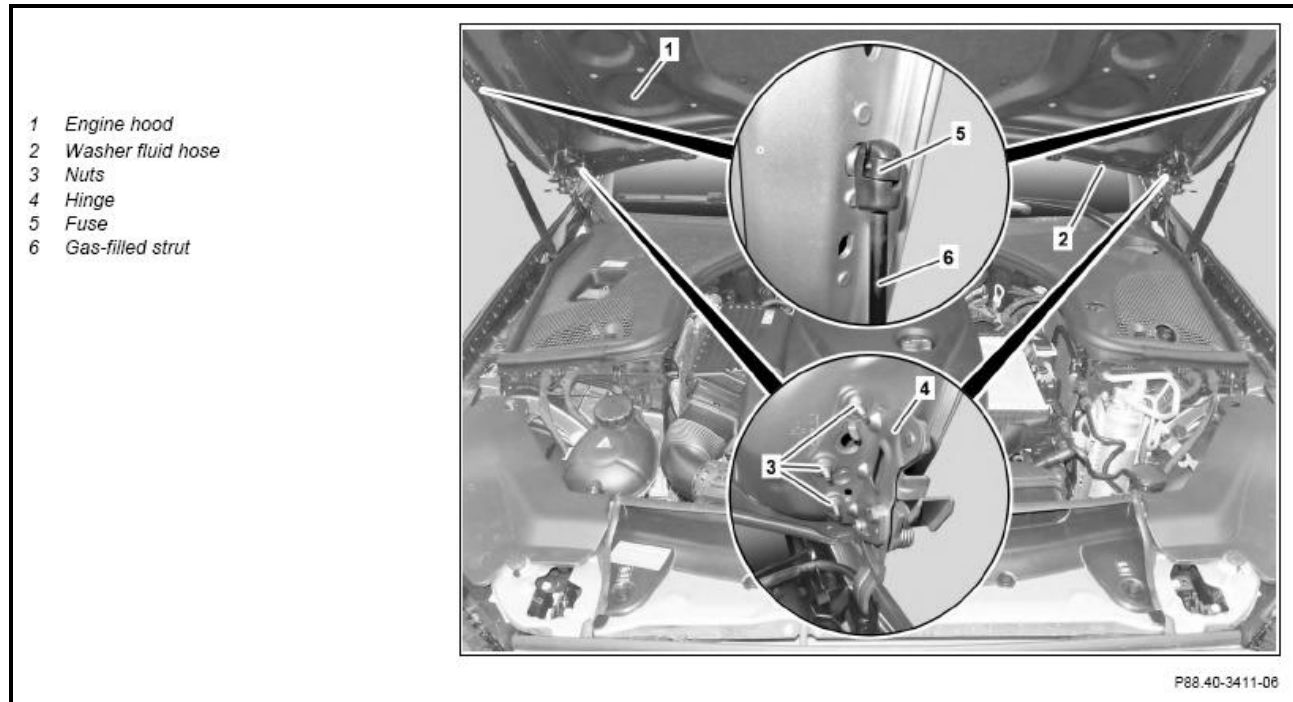
**Fig. 6: Identifying Clip Remover (452 589 01 63 00)**

Courtesy of MERCEDES-BENZ USA








**REMOVE/INSTALL ENGINE HOOD - AR88.40-P-3000FR**

Model 257, 290

Shown on model 257



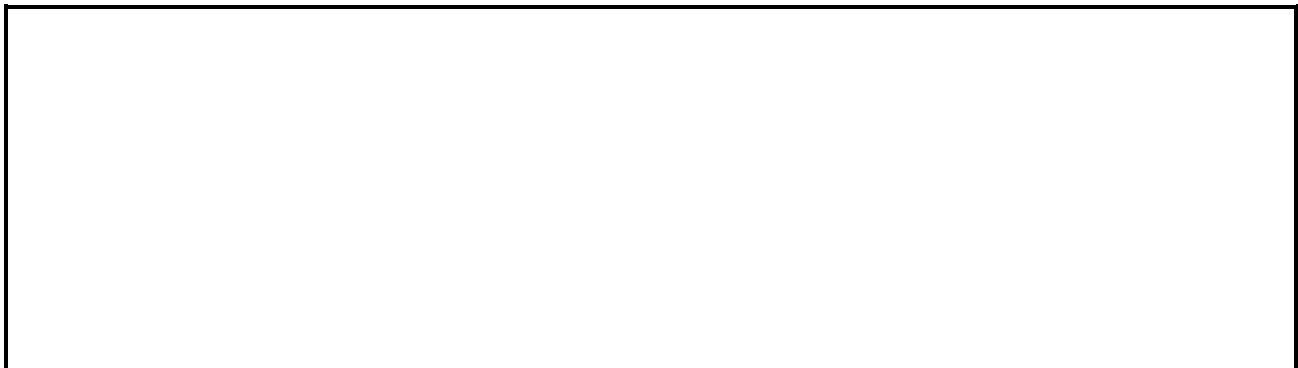
	<b>WARNING!</b> Risk of injury caused by fingers being jammed or pinched when removing, installing or aligning hoods, doors, trunk lid/rear-end door or sliding roof.	No parts of the body or limbs should be within the operating area when the components are moving.	<a href="#">AS00.00-Z-0011-01A</a>
	<b>WARNING!</b> Risk of injury from fingers being pinched or jammed when working on gas struts under pressure	Only remove and install pneumatic springs when they are not under tension and when the components are properly secured.	<a href="#">AS00.00-Z-0012-01A</a>
Â	Notes on safety-relevant components	Â	<a href="#">AH00.00-Z-0019-01A</a>
	<b>Remove/install</b>	Â	Â
1	Open hood (1) and position vertically.	Â	Â
2	Remove spray nozzles with washer fluid hose (2) from hood (1) and lay down in the engine compartment.	Â	Â
		<b>Installation</b> Tighten	

3	Unscrew two of the three nuts (3) on the left and right hinge (4).	nuts (3) so that engine hood (1) can still be moved. Nuts (3) are bolted when the engine hood (1) is adjusted.	Â
4	Lift retainers (5) with a suitable screwdriver and detach pneumatic springs (6) from mounts.	 Do not remove retainers (5). Otherwise the preload of the retainers (5) will be lost.  Helper required for securing engine hood (1).  <b>Installation</b> Clip gas-filled struts (6) into mounts with retainers (5) installed.	Â
5	Unscrew remaining nuts (3) and remove hood (1).	 Helper required for removing engine hood (1).  <b>Installation</b> Tighten nuts (3) so that engine hood (1) can still be moved. Nuts (3) are bolted when the engine hood (1) is adjusted.	Â
6	Install in the reverse order.	Â	Â
7	Adjust engine hood (1).	Â	<a href="#">AR88.40-P-3020FR</a>
	<b>Check</b>	Â	Â
8	Perform function check of the windshield washer system.	Â	Â
 <b>AP</b>	Â	Â	<a href="#">AP82.35-P-8252D</a>

**REMOVE/INSTALL GAS-OPERATED STRUT ON ENGINE HOOD - AR88.40-P-3010FR**

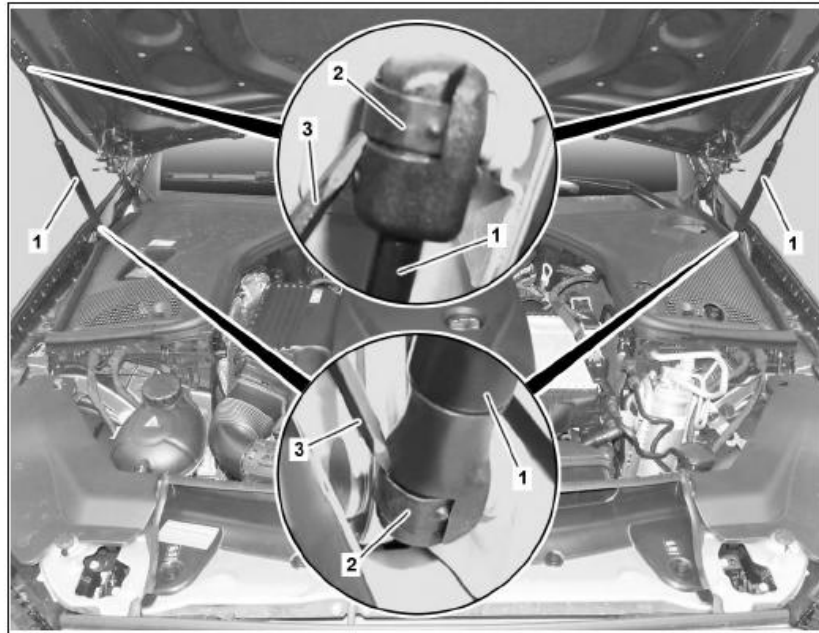
Model 257, 290

Shown on model 257





- 1 Gas-filled strut
- 2 Fuse
- 3 Screwdriver



P88.40-3420-06

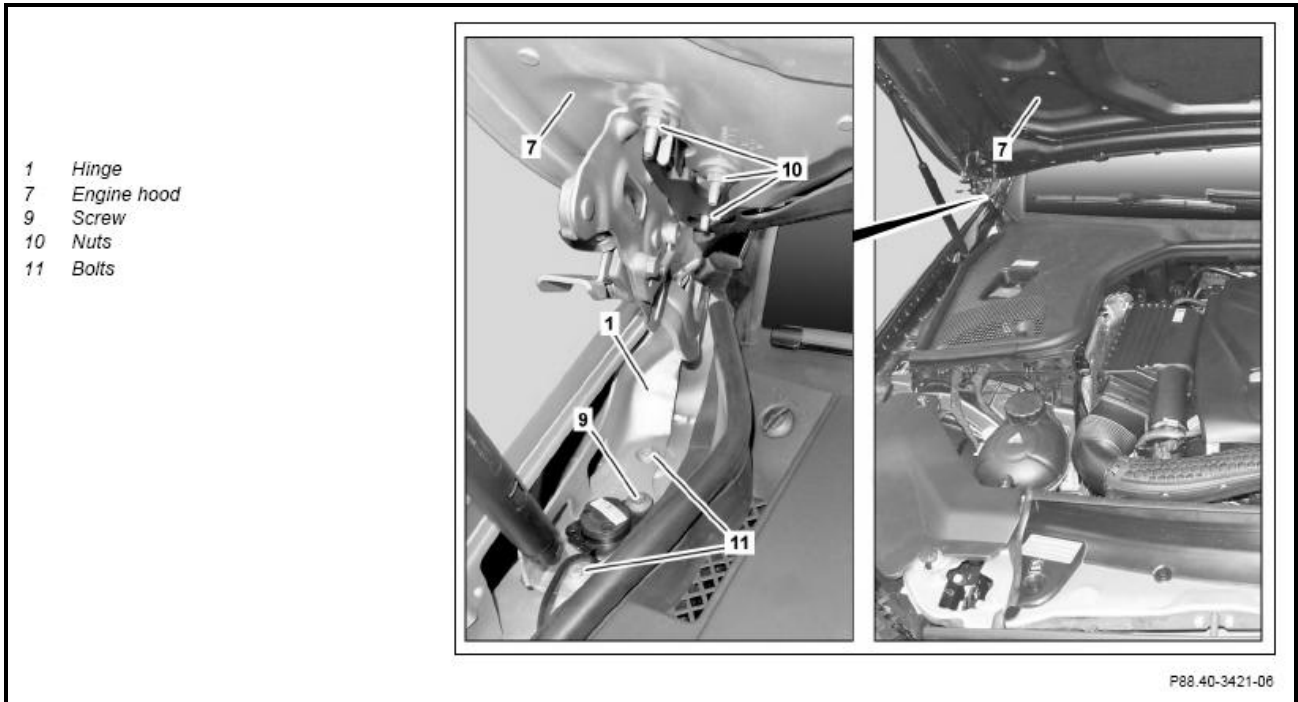
<b>WARNING!</b>	<b>Risk of injury</b> caused by fingers being jammed or pinched when removing, installing or aligning hoods, doors, trunk lid/rear-end door or sliding roof.	No parts of the body or limbs should be within the operating area when the components are moving.	<a href="#">AS00.00-Z-0011-01A</a>
<b>WARNING!</b>	<b>Risk of injury</b> from fingers being pinched or jammed when working on gas struts under pressure	Only remove and install pneumatic springs when they are not under tension and when the components are properly secured.	<a href="#">AS00.00-Z-0012-01A</a>
	<b>Remove/install</b>	Â	Â
1	Open engine hood and position upright.	Â	Â
2	Lift top and bottom retainer (2) with a suitable screwdriver (3) and detach pneumatic springs (1) from the mounts.	Do not remove retainers (2). Otherwise tension is lost. When both gas-filled strut (1) are removed simultaneously, secure engine hood against falling down. Otherwise the engine hood can be damaged.	Â
3	Remove transport protection of the left pneumatic spring (1).	When replacing gas-filled strut (1).	Â
4	Install in the reverse order.	Â	Â

**ADJUST ENGINE HOOD - AR88.40-P-3020FR**

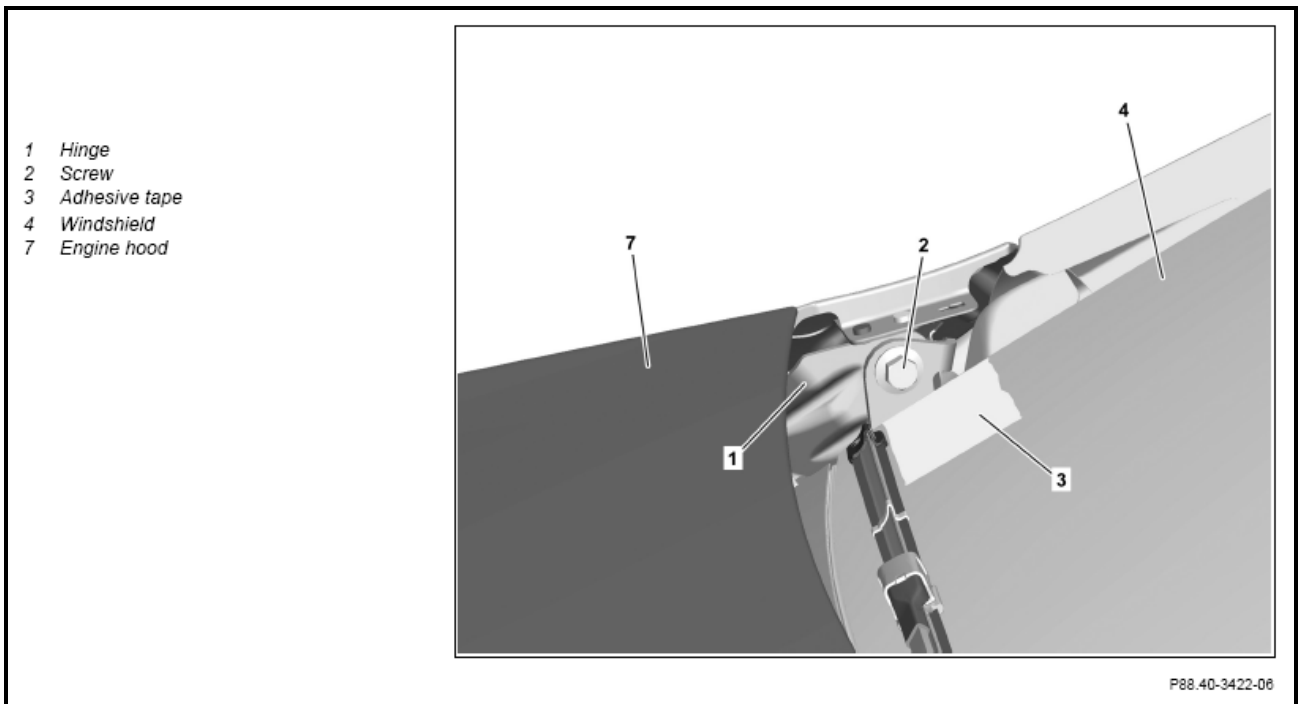
**Model 257, 290**



Shown on model 257 with code U60 (active hood (pedestrian protection)), on the right side of the vehicle



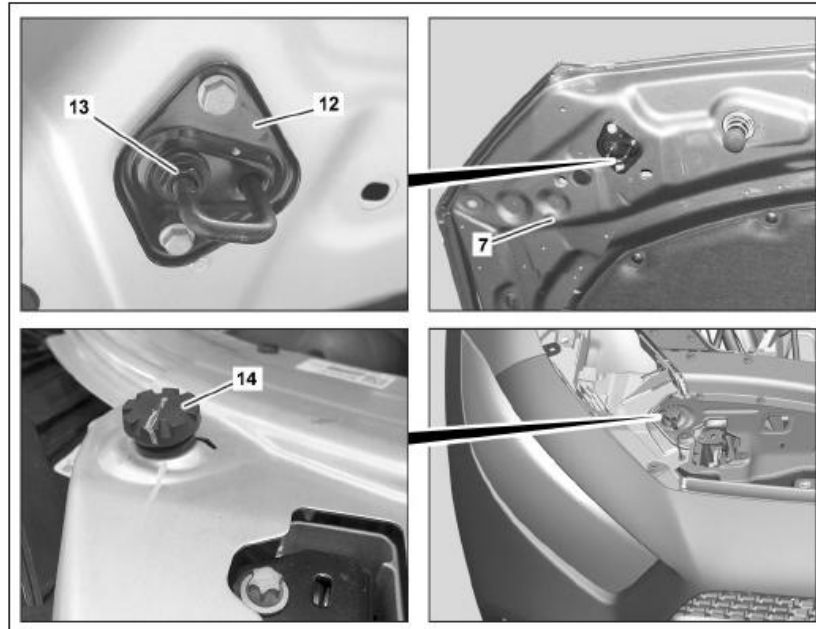
Shown on model 257 on the right side of the vehicle






















Shown on model 257 on the right side of the vehicle












- 7 Engine hood
- 12 Upper section of engine hood catch
- 13 Nut
- 14 Stop buffer






P88.40-3423-06

 <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 safety-relevant components		<a href="#">AH00.00-Z-0019-01A</a>
	<b>Check</b>		
1	Check adjustment of hood (7).	Model 257.3 Engine hood to fender	<a href="#">*BE60.00-P-1001-01IA</a>
		Model 290 Engine hood to fender	<a href="#">*BE60.00-P-1001-01KA</a>
		Model 257.3 Engine hood to bumper	<a href="#">*BE60.00-P-1002-01IA</a>
		Model 290 Engine hood to bumper	<a href="#">*BE60.00-P-1002-01KA</a>
		Model 257.3 Protrusion of radiator trim/soft nose, engine hood	<a href="#">*BE60.00-P-1020-01IA</a>
		Model 290 Protrusion of radiator trim/soft nose, engine hood	<a href="#">*BE60.00-P-1003-01KA</a>
		 Feeler gauge	<a href="#">Fig. 7</a>

Â	<b>Rough adjustment in lateral and longitudinal direction</b>	Â	Â
2	Loosen left and right screw (9).	Â	Â
3	Loosen screws (11) on left and right hinge (1) and adjust hood (7) in the transverse and longitudinal direction.	 Aid of helper required. Model 257.3 Engine hood to fender	<a href="#">*BE60.00-P-1001-01IA</a> <a href="#">*BE60.00-P-1001-01KA</a>
Â	Â	Model 290 Engine hood to fender	<a href="#">*BE60.00-P-1002-01IA</a> <a href="#">*BE60.00-P-1002-01KA</a>
Â	Â	Model 257.3 Engine hood to bumper	<a href="#">*BE60.00-P-1020-01IA</a> <a href="#">*BE60.00-P-1020-01KA</a>
Â	Â	Model 290 Engine hood to bumper	<a href="#">*BE60.00-P-1003-01IA</a> <a href="#">*BE60.00-P-1003-01KA</a>
Â	Â	Model 257.3 Protrusion of radiator trim/soft nose, engine hood	<a href="#">*BE60.00-P-1001-01IA</a> <a href="#">*BE60.00-P-1001-01KA</a>
Â	Â	Model 290 Protrusion of radiator trim/soft nose, engine hood	<a href="#">*BE60.00-P-1002-01IA</a> <a href="#">*BE60.00-P-1002-01KA</a>
Â	Â	 Feeler gauge	<a href="#">Fig. 7</a>
4	Tighten screws (11) on left and right hinge (1).	 Attachment, hinge to body	<a href="#">*BA88.40-P-1001-01N</a>
5	Tighten left and right screw (9).	 Screw/nut, hood lifter to body	<a href="#">*BA91.60-P-1002-02A</a>
Â	<b>Fine adjustment in lateral and longitudinal direction</b>	Â	Â
6	Loosen nuts (10) on left and right hinge (1) and adjust and hood (7) in the transverse and longitudinal direction.	 Aid of helper required. Model 257.3 Engine hood to fender	<a href="#">*BE60.00-P-1001-01IA</a> <a href="#">*BE60.00-P-1001-01KA</a>
Â	Â	Model 290 Engine hood to fender	<a href="#">*BE60.00-P-1002-01IA</a> <a href="#">*BE60.00-P-1002-01KA</a>
Â	Â	Model 257.3 Engine hood to bumper	<a href="#">*BE60.00-P-1020-01IA</a> <a href="#">*BE60.00-P-1020-01KA</a>
Â	Â	Model 290 Engine hood to bumper	<a href="#">*BE60.00-P-1003-01IA</a> <a href="#">*BE60.00-P-1003-01KA</a>
Â	Â	Model 257.3 Protrusion of radiator trim/soft nose, engine hood	<a href="#">*BE60.00-P-1001-01IA</a> <a href="#">*BE60.00-P-1001-01KA</a>
Â	Â	Model 290 Protrusion of radiator trim/soft nose, engine hood	<a href="#">*BE60.00-P-1002-01IA</a> <a href="#">*BE60.00-P-1002-01KA</a>

Â	Â	 Feeler gauge	<a href="#">01KA</a> <a href="#">Fig. 7</a>
7	Tighten nuts (10) on left and right hinge (1).	 Attachment, hinge to engine hood	<a href="#">*BA88.40-</a> <a href="#">P-1002-</a> <a href="#">01N</a>
Â	<b>Adjust height at rear</b>	Â	Â
8	Release drip rails in the area of the windshield (4).	Â	Â
9	Mask off windshield (4) in the area of the screws (2) with tape (3).	Â	Â
10	Loosen screws (2) on left and right hinge (1) and adjust height of the hood (7).	Model 290 Protrusion of radiator trim/soft nose, engine hood	<a href="#">*BE60.00-</a> <a href="#">P-1003-</a> <a href="#">01KA</a>
Â	Â	Model 257.3 Protrusion of radiator trim/soft nose, engine hood	<a href="#">*BE60.00-</a> <a href="#">P-1020-</a> <a href="#">01IA</a>
11	Tighten screws (2) on left and right hinge (1).	 Attachment, hinge upper part to hinge lower part	<a href="#">*BA88.40-</a> <a href="#">P-1008-</a> <a href="#">01N</a>
12	Remove tape (3) from the windshield (4).	Â	Â
13	Fasten drip rails in the area of the windshield (4).	Â	Â
Â	<b>Adjust height at front</b>	Â	Â
14	Screw in both stop buffers (14) completely.	Â	Â
15	Adjust the height of the hood (7) at the front by twisting the nut (13) on the left and right hood catch upper section (12).	Model 257.3 Engine hood to fender	<a href="#">*BE60.00-</a> <a href="#">P-1001-</a> <a href="#">01IA</a>
Â	Â	Model 290 Engine hood to fender	<a href="#">*BE60.00-</a> <a href="#">P-1001-</a> <a href="#">01KA</a>
Â	Â	Model 257.3 Engine hood to bumper	<a href="#">*BE60.00-</a> <a href="#">P-1002-</a> <a href="#">01IA</a>
Â	Â	Model 290 Engine hood to bumper	<a href="#">*BE60.00-</a> <a href="#">P-1002-</a> <a href="#">01KA</a>
Â	Â	Model 257.3 Protrusion of radiator trim/soft nose, engine hood	<a href="#">*BE60.00-</a> <a href="#">P-1020-</a> <a href="#">01IA</a>
Â	Â	Model 290 Protrusion of radiator trim/soft nose, engine hood	<a href="#">*BE60.00-</a> <a href="#">P-1003-</a> <a href="#">01KA</a>
Â	Â	 Feeler gauge	<a href="#">Fig. 7</a>
16	Mark both stop buffers (14) in the contact area of the hood (7) with chalk.	Â	Â

17	Remove stop buffers (14) until the hood (7) makes contact with the stop buffers (14) when closed.	 A chalk mark must be visible on the engine hood (7).	Â
18	Remove stop buffers (14) by a quarter revolution.	 Subject engine hood (7) to slight tension to prevent vibration.	Â
19	Repair paint damage in the area around the hinges (1) and the hood catch upper sections (12) with primer filler and touch-up paint pen.	If paint damage occurs when adjusting.  Use only primer filler and paints approved by Daimler AG: <a href="https://xentryportal.i.daimler.com">https://xentryportal.i.daimler.com</a>	Â
20	Protect area around the hinges (1) and hood catch upper sections (12) against corrosion.	Cavity preservation (free of solvents), 1 liter	<b>*BR00.45-</b> <b>Z-1003-</b> <b>05A</b>

#### GAP DIMENSIONS

Number	Designation	Model 257.3
BE60.00-P-1001-01IA	Engine hood to fender	Dimension "A" mm 3 (Â± 0, 5)
		For picture, see <a href="#">AR60.00-P-0700-01FR</a>

#### GAP DIMENSIONS

Number	Designation	Model 290
BE60.00-P-1001-01KA	Engine hood to fender	Dimension "A" mm 3 (Â± 0, 5)
		For picture, see AR60.00-P-0900-01FRX

#### GAP DIMENSIONS

Number	Designation	Model 257.3
BE60.00-P-1002-01IA	Engine hood to bumper	Dimension "B" mm 3, 5 (Â± 0, 5)
		For picture, see <a href="#">AR60.00-P-0700-01FR</a>

#### GAP DIMENSIONS

Number	Designation	Model 290
BE60.00-P-1002-01KA	Engine hood to bumper	Dimension "B" mm 3, 5 (Â± 0, 5)
		For picture, see AR60.00-P-0900-01FRX

#### GAP DIMENSIONS

Number	Designation	Model 290
BE60.00-P-1003-01KA	Protrusion of radiator trim/soft nose, engine hood	Dimension "B1" mm 1 (Â± 0, 5)
		For picture, see AR60.00-P-0900-01FRX

#### GAP DIMENSIONS

Number	Designation	Model 257.3
BE60.00-P-1020-01IA	Protrusion of radiator trim/soft nose, engine hood	Dimension "B1" mm 1 (Â± 0, 5)
		For picture, see <a href="#">AR60.00-P-0700-</a>

**ENGINE HOOD**

Number	Designation	Model 257	Model 290
BA88.40-P-1001-01N	Attachment, hinge to body Nm	10	10

**ENGINE HOOD**

Number	Designation	Model 257	Model 290
BA88.40-P-1002-01N	Attachment, hinge to engine hood Nm	10	10

**ENGINE HOOD**

Number	Designation	Model 257	Model 290
BA88.40-P-1008-01N	Attachment, hinge upper part to hinge lower part Nm	23	23

**ENGINE HOOD LIFTER**

Number	Designation	Model 257	Model 290
BA91.60-P-1002-02A	Screw/nut, hood lifter to body Nm	10	10

**Fig. 7: Identifying Feeler Gauge (129 589 03 21 00)**

Courtesy of MERCEDES-BENZ USA

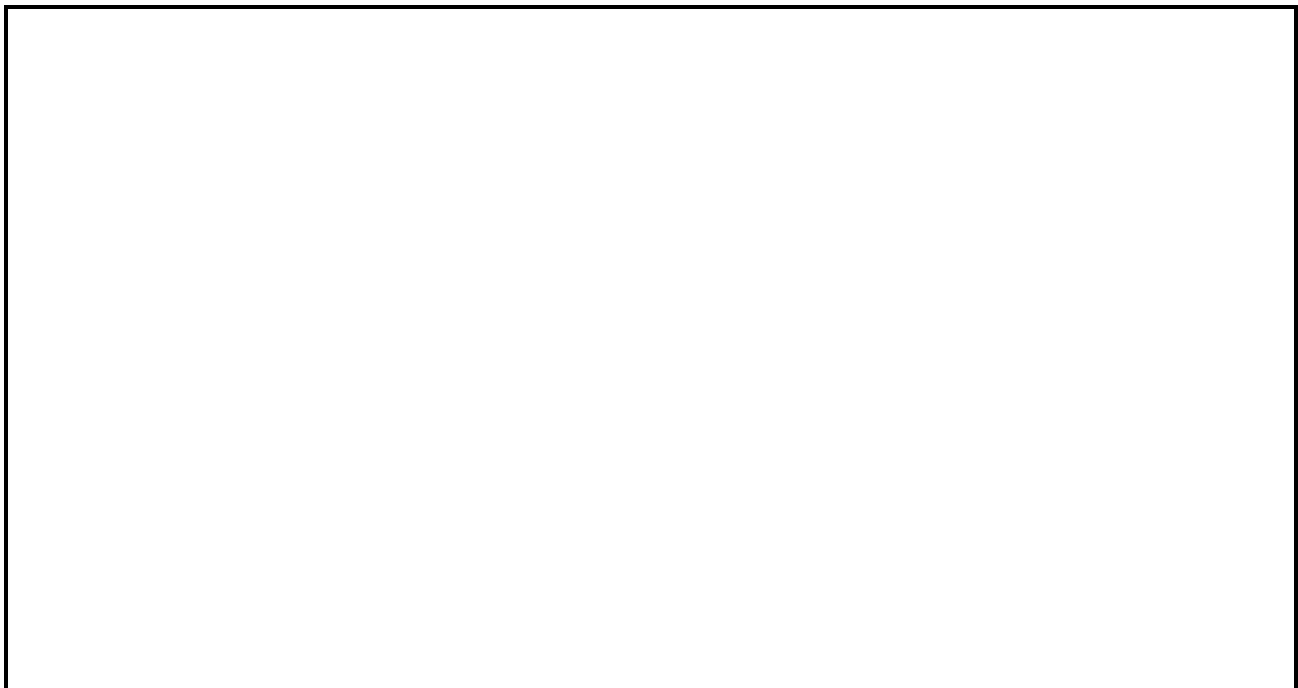
**REPAIR MATERIALS**

Number	Designation	Order number
BR00.45-Z-1003-05A	Cavity preservation (free of solvents), 1 liter	A 000 986 72 70 10

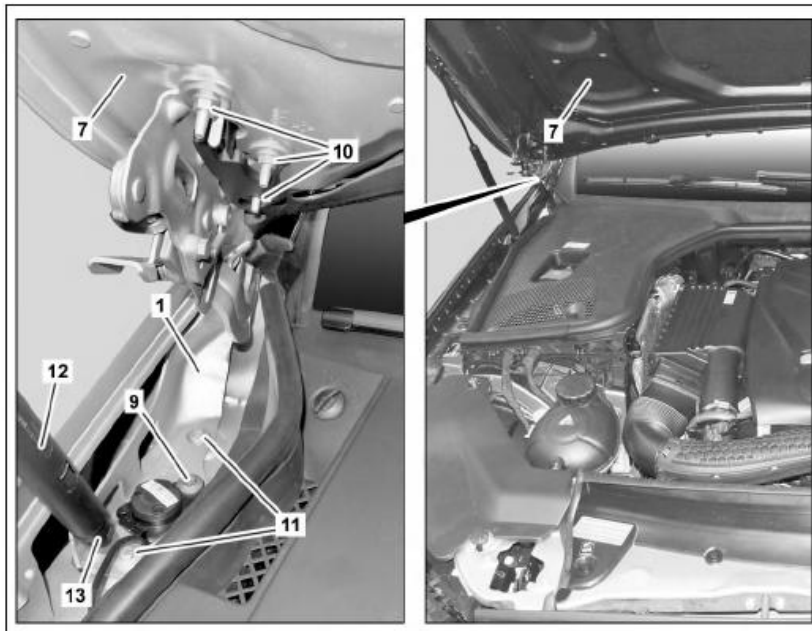
**REMOVE/INSTALL ENGINE HOOD HINGE - AR88.40-P-3061FR**

Model 257, 290

Shown on model 257 with code U60 (active hood (pedestrian protection)), on the right side of the vehicle











- 1 Hinge
- 7 Engine hood
- 9 Screw
- 10 Nuts
- 11 Bolts
- 12 Gas-filled strut
- 13 Fuse



P88.40-3424-06

<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>
<b>WARNING!</b>	<b>Risk of injury</b> from fingers being pinched or jammed when working on gas struts under pressure	Only remove and install pneumatic springs when they are not under tension and when the components are properly secured.	<a href="#">AS00.00-Z-0012-01A</a>
	Notes on safety-relevant components		<a href="#">AH00.00-Z-0019-01A</a>
	<b>Remove/install</b>		
1	Remove hood lifter.	Model 257, 290 with code U60 (Active Bonnet (Pedestrian protection))	<a href="#">AR91.60-P-0900FR</a>
2	Remove cartridge line to the inerting system in the engine compartment.	Model 257, 290 with code 2U8 (Alternative refrigerant) During removal of the right hinge (1).	<a href="#">AR86.10-P-0219FR</a>
3	Remove spray nozzles with washer fluid hose from the hood (7) and from the hinge (1) and lay down in the engine compartment.	When removing left hinge (1).	
		Do not remove retainer (13). Otherwise the tension of the retainer (13) can be lost.	

4	Lift retainer (13) with a suitable screwdriver and detach pneumatic spring (12) from hinge (1).	 Helper required for securing hood (7).  <b>Installation</b> Clip gas-filled struts (12) into hinge (1) with retainer (13) installed.	Â
5	Lay suitable base between the hood (7), front fender, and drip rail.	 Helper required for securing hood (7).	Â
6	Unscrew nuts (10) and carefully lay hood (7) down on the base.	 <b>Installation</b> Screw on nuts (10) all the way. Tighten only after adjusting engine hood (7).	Â
7	Remove screw (9).	Model 257, 290 except code U60 (Active Bonnet (Pedestrian protection))  <b>Installation</b> Screw in screw (9) until it abuts. It is not tightened until the hood (7) is adjusted.	Â
8	Remove screws (11).	 <b>Installation</b> Screw in bolts (11) up to the stop. Tighten only after adjusting engine hood (7).	Â
9	Remove hinge (1).	Â	Â
10	Install in the reverse order.	Â	Â
11	Adjust engine hood (7).	Â	<a href="#">AR88.40-P-3020FR</a>
	<b>Check</b>	Â	Â
12	Perform function check of the windshield washer system.	Â	Â
	Â	Â	<a href="#">AP82.35-P-8252D</a>

**REMOVE/INSTALL MERCEDES STAR - AR88.40-P-4053FR**

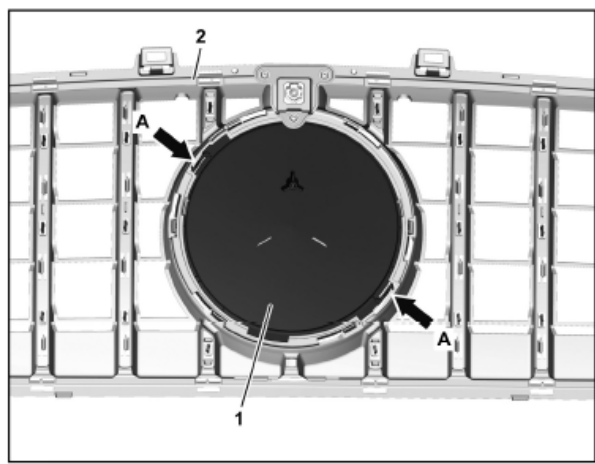
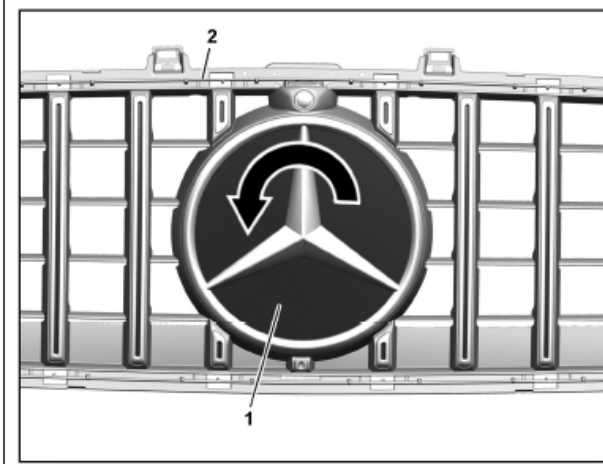
**Model 257, 290**

**MODIFICATION NOTES**

05.10.2021	Repair method revised.	Operation steps 3, 4 added.
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**Shown on model 290 with code 258 (Active Brake Assist)**





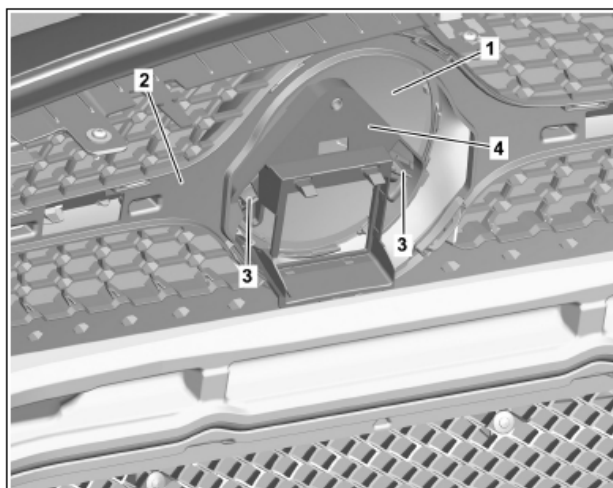
P88.40-3472-08

1 Mercedes star


2 Radiator trim


Shown on model 257 with code 258 (Active Brake Assist)

- 1 Mercedes star
- 2 Radiator trim
- 3 Catch
- 4 Bracket



P88.40-3443-11

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	Remove Active Brake Assist electric controller unit.	Model 257, 290 up to model year 2021 with code 258 (Active Brake Assist System)	<a href="#">AR54.21-P-0700FR</a>
		Model 257, 290	

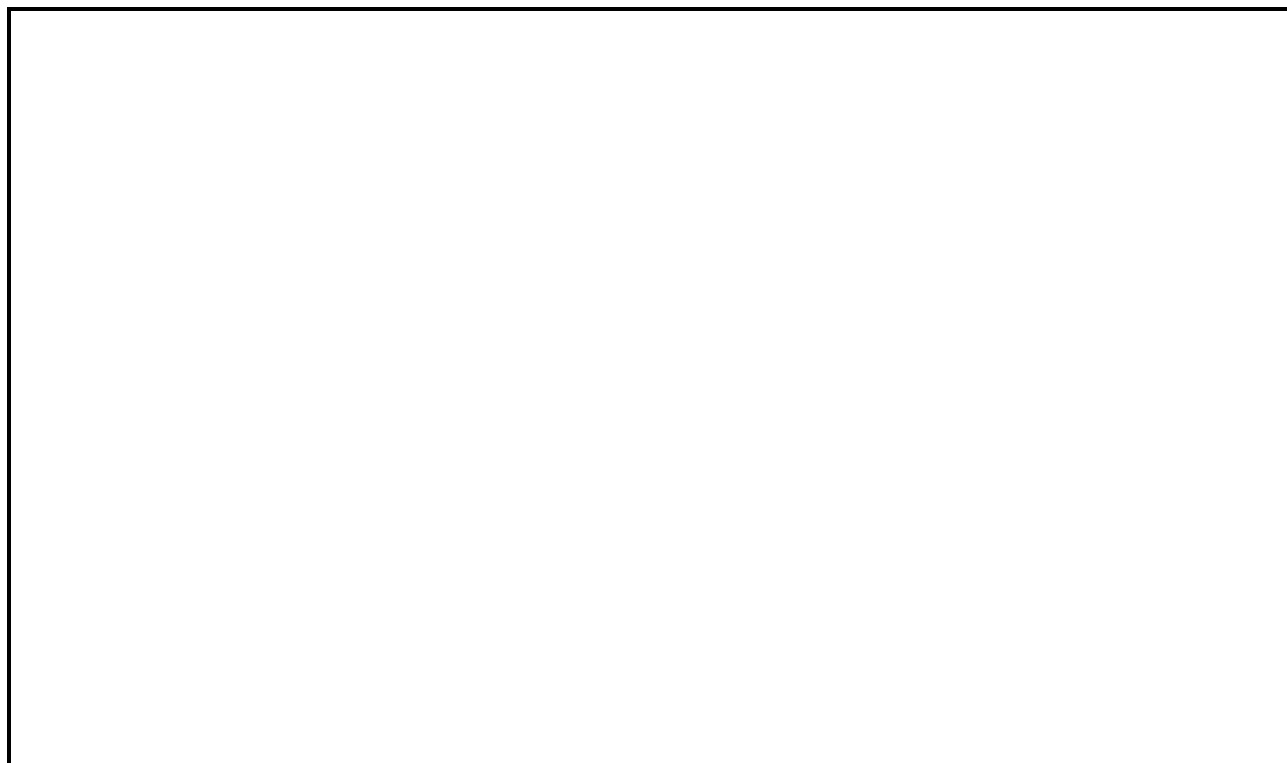
2	Release Mercedes star (1) from arrests (3) and tilt top of bracket (4) back.	with code 258 (Active Brake Assist System)	Â
3	Clean Mercedes star (1).	 The Mercedes star (1) must be dry and free of dust and grease. Cleaner	<u>*BR00.45-Z-1025-04A</u>
4	Fasten suitable cup suction tool to Mercedes star (1).	Â	Â
5	Turn Mercedes star (1) using the cup suction tool in direction of arrow until the catches (arrows A) are unlocked.	Â	Â
6	Remove Mercedes star (1).	Â	Â
7	Disconnect electrical connector on Mercedes star (1).	Model 257, 290 with code 233 (Adaptive cruise control Plus (DISTRONIC PLUS)) Model 257, 290 with code 239 (Adaptive cruise control Pro (DISTRONIC PRO))	Â
8	Install in the reverse order.	Â	Â

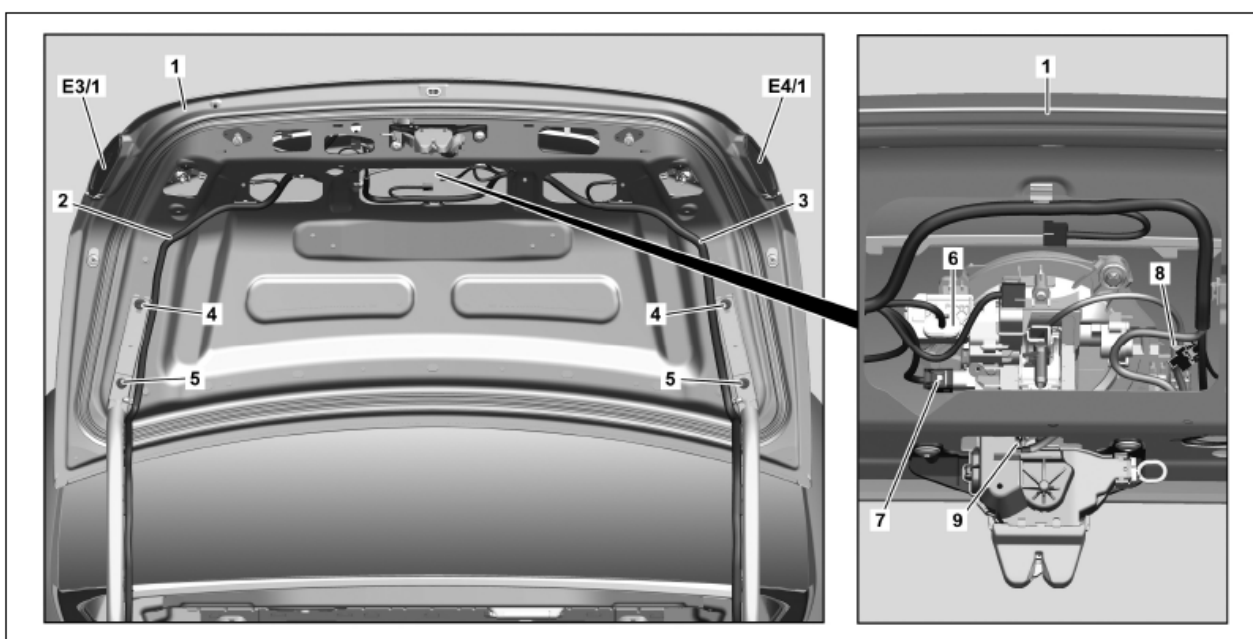
#### REPAIR MATERIALS

Number	Designation	Order number
BR00.45-Z-1025-04A	Cleaner	A 005 989 19 71

#### REMOVE/INSTALL TRUNK LID - AR88.50-P-0001FR

#### Model 257













P88.60-3292-09

- |   |                                 |      |                            |
|---|---------------------------------|------|----------------------------|
| 1 | Trunk lid                       | 7    | Electrical connector       |
| 2 | Left electrical wiring harness  | 8    | Electrical connector       |
| 3 | Right electrical wiring harness | 9    | Electrical connector       |
| 4 | Screw                           | E3/1 | Inner left rear lamp unit  |
| 5 | Screw                           | E4/1 | Inner right rear lamp unit |
| 6 | Electrical connector            |      |                            |

**Shown on vehicle with code 501 (360° camera)**







	<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>
Topical note	Information on preventing damage to electronic components due to electrostatic discharge	^	<a href="#">AH54.00-P-0001-01A</a>
^	Notes on HANDS-FREE ACCESS	^	<a href="#">AH80.61-P-0001-01A</a>
	<b>Remove</b>	^	^
1	Remove inner rear lamp unit (E3/1, E4/1)	^	<a href="#">AR82.10-P-4927FR</a>
2	Disconnect electrical connector (8) n	Model 257 with code 218 (Rear view camera) Model 257 with code 501 (360° camera)	^




		 The number of electrical connectors can vary depending on the equipment installed.	
3	Remove left electrical wiring harness (2) from trunk lid (1)	^	^
4	Disconnect electrical connectors (6, 7, 9)	 The number of electrical connectors may vary depending on the equipment.	^
5	Remove right electrical wiring harness (3) from trunk lid (1)	^	^
6	Remove bolts (5)	^	^
7	Loosen bolts (4)	 Helper required to secure trunk lid (1).	^
8	Remove trunk lid (1) upward	 Helper required.	^
	<b>Install</b>	^	^
9	Attach trunk lid (1) with screws (4) to hinges	 Helper required.	^
10	Screw in screws (4) to extent that trunk lid (1) can still be moved	 Screws (4) are tightened during adjustment of trunk lid (1). Helper required.	^
11	Screw in screws (5) to extent that trunk lid (1) can still be moved	 Screws (5) are tightened during adjustment of trunk lid (1).	^
12	Install right electrical wiring harness (3) at trunk lid (1)	^	^
13	Connect electrical connectors (6, 7, 9)	^	^
14	Install left electrical wiring harness (2) at trunk lid (1)	^	^
15	Connect electrical connector (8)	Model 257 with code 218 (Rear view camera) with code 501 (360° camera)	^
16	Adjust trunk lid (1)	^	<a href="#">AR88.50-P-0002FR</a>
17	Install inner rear lamp unit (E3/1, E4/1)	^	<a href="#">AR82.10-P-4927FR</a>

### ADJUST TRUNK LID - AR88.50-P-0002FR

Model 257



2	Remove rear center assembly paneling	Â	<a href="#">AR68.30-P-4786FR</a>
3	Remove trim (1)	Â	<a href="#">AR68.30-P-8151FR</a>
Â	<b>Adjust</b>	Â	Â
4	Loosen bolts (3) for striker eye (4)	Â	Â
5	Expose left electrical wiring harness (6) in area of bolts (8) on left hinge lever	Â	Â
6	Expose right electrical wiring harness (7) in area of bolts (8) on right hinge lever	Â	Â
7	Loosen bolts (8) on left and right hinge lever	Â	Â
8	Adjust trunk lid (5) in longitudinal and transverse direction	Trunk lid to bumper	<a href="#">*BE60.00-P-1012-01IA</a>
Â	Â	Outside of taillamp to inside of taillamp	<a href="#">*BE60.00-P-1014-01IA</a>
Â	Â	Trunk lid to fender at rear, top	<a href="#">*BE60.00-P-1017-01IA</a>
Â	Â	Trunk lid to rear window	<a href="#">*BE60.00-P-1021-01IA</a>
Â	Â	 Feeler gauge	<a href="#">Fig. 8</a>
9	Tighten bolts (8) on left and right hinge lever	 Bolt, hinge bracket to trunk lid	<a href="#">*BA88.50-P-1001-03A</a>
10	Repair paint damage in area of hinge lever with primer filler and touch-up paint pen	 Use only primer filler and paints approved by Daimler AG: <a href="https://xentryportal.i.daimler.com">https://xentryportal.i.daimler.com</a>	Â
11	Protect area around hinge lever against corrosion	Cavity preservation (free of solvents), 1 liter	<a href="#">*BR00.45-Z-1003-05A</a>
12	Fasten right electrical wiring harness (7)	Â	Â
13	Fasten left electrical wiring harness (6)	Â	Â
14	Completely screw in stop buffers (2)	Â	Â
15	Adjust height of trunk lid (5) by moving lock striker (4)	 The top edge of the trunk lid (5) must be flush with the fenders.	<a href="#">*BE60.00-P-1012-01IA</a>
Â	Â	Trunk lid to bumper  Feeler gauge	<a href="#">Fig. 8</a>
16	Center lock striker (4) in relation to trunk lid lock and tighten bolts (3)	Â	Â
	<b>Install</b>	Â	Â

17	Install cover (1)	Â	<a href="#">AR68.30-P-8151FR</a>
18	Install rear center section paneling	Â	<a href="#">AR68.30-P-4786FR</a>
Â	<b>Adjust</b>	Â	Â
19	Mark stop buffers (2) in contact area with chalk	Â	Â
20	Unscrew stop buffers (2) to extent that trunk lid (5) is in contact with stop buffers (2) when closed	 A chalk mark is visible on contact surface of trunk lid (5).	Â
21	Unscrew stop buffers (2) by a quarter turn	 The trunk lid (5) is distorted slightly to prevent vibrations.	Â
Â	<b>Calibrate</b>	Â	Â
22	Calibrate 360Â° rear camera with diagnostic system added	Â	Â
 <b>AD</b>	Â	Â	<a href="#">AD00.00-P-2000-06FR</a>

#### GAP DIMENSIONS

Number	Designation	Model 257.3
BE60.00-P-1012-011A	Trunk lid to bumper	Dimension "J1" mm 5, 5 (Â±1)
		Dimension "J2" mm 4 (Â± 0, 5)
	For picture, see	Â <a href="#">AR60.00-P-0700-01FR</a>

#### GAP DIMENSIONS

Number	Designation	Model 257.3
BE60.00-P-1014-011A	Outside of taillamp to	Dimension "L" mm 3, 5 (-0, 5/+1)
	inside of taillamp	For picture, see Â <a href="#">AR60.00-P-0700-01FR</a>

#### GAP DIMENSIONS

Number	Designation	Model 257.3
BE60.00-P-1017-011A	Trunk lid to fender at rear, top	Dimension "O" mm 3 (-0, 5/+1)
		For picture, see Â <a href="#">AR60.00-P-0700-01FR</a>

#### GAP DIMENSIONS

Number	Designation	Model 257.3
BE60.00-P-1021-011A	Trunk lid to rear window	Dimension "R" mm 7, 5 (Â± 2)
		For picture, see Â <a href="#">AR60.00-P-0700-01FR</a>

#### TRUNK LID

Number	Designation	Model 257

BA88.50-P-1001-03A	Bolt, hinge bracket to trunk lid	Nm	10
--------------------	----------------------------------	----	----

**Fig. 8: Identifying Feeler Gauge (129 589 03 21 00)**

Courtesy of MERCEDES-BENZ USA

**REPAIR MATERIALS**


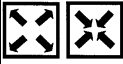




Number	Designation	Order number
BR00.45-Z-1003-05A	Cavity preservation (free of solvents), 1 liter	A 000 986 72 70 10

**REMOVE/INSTALL TRUNK LID LOCK - AR88.50-P-0003FR**

Model 257

**Fig. 9: Trunk Lid Lock Component Location - Model 257**

Courtesy of MERCEDES-BENZ USA

 <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	Unclip retaining clips (3)	 Clip remover	<a href="#">Fig. 10</a>
2	Unclip paneling (2) and disconnect electrical connector	 The number of electrical connectors may vary depending on the equipment.	Â
3	Remove trim panel (2)	Â	Â
4	Disconnect electrical connection (5)	Â	Â
5	Mark installation position of trunk lid/tailgate lock (A85/5) at trunk lid (1)	Â	Â
6	Remove bolts (4)	 <b>Installation</b> Align trunk lid/tailgate lock (A85/5) according to markings.  Bolt, trunk lid lock to trunk lid	<a href="#">*BA88.50-P-1004-03A</a>
7	Remove trunk lid/tailgate lock (A85/5)	Â	Â
8	Install in the reverse order	Â	Â

**TRUNK LID**

Number	Designation	Model 257
BA88.50-P-1004-03A	Bolt, trunk lid lock to trunk lid	Nm 9

**Fig. 10: Identifying Clip Remover (452 589 01 63 00)**



Courtesy of MERCEDES-BENZ USA


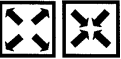

**REMOVE/INSTALL TRUNK LID LOCK ACTUATOR - AR88.50-P-5090FR**

Model 257

Shown with code 501 (360° camera)

**Fig. 11: Trunk Lid Lock Actuator Component Location - Model 257 With Code 501**

Courtesy of MERCEDES-BENZ USA

 <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>
Topical note	Information on preventing damage to electronic components due to electrostatic discharge	^	<a href="#">AH54.00-P-0001-01A</a>
^	Notes on HANDS-FREE ACCESS	^	<a href="#">AH80.61-P-0001-01A</a>
	<b>Remove/install</b>	^	^
1	Remove trunk lid paneling	^	<a href="#">AR68.30-P-8151FR</a>
2	Remove trunk lock	^	<a href="#">AR88.50-P-0003FR</a>
3	Release, disconnect and unclip electrical connector (3)	Model 257 with code 218 (Rear view camera) Model 257 with code 501 (360° camera)  Number of electrical connectors (3) can vary depending on the equipment.	^
4	Disconnect electrical connections (4)	^	^
5	Unscrew bolts (2)	^	^
6	Remove hose at drainage fitting (arrow) of trunk lid lock actuation (1)	^	^
7	Remove trunk lid lock actuation (1)	^	^
8	Install in the reverse order	^	^

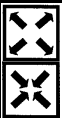
**ACTUATE EMERGENCY RELEASE OF FUEL FILLER FLAP - AR88.60-P-1002FR**

Model 257, 290

**Fig. 12: Fuel Filler Flap Emergency Release Component Location - Model 257**

Courtesy of MERCEDES-BENZ USA

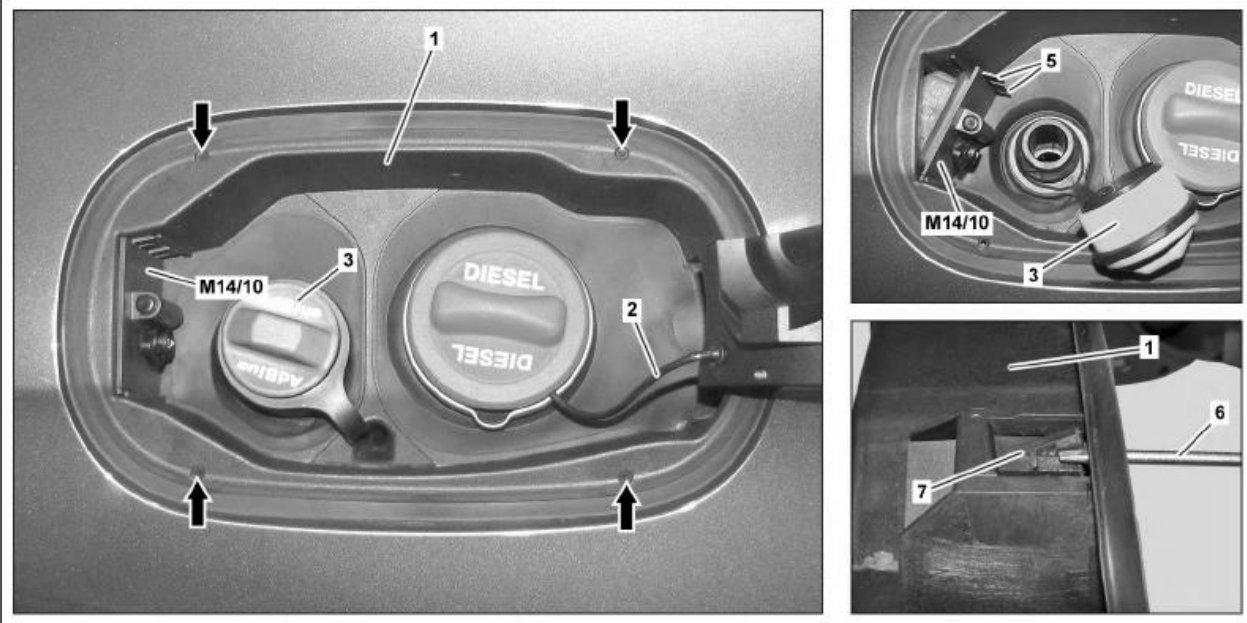
Shown on model 257

	<b>Remove/install</b>	Â	Â
1	Remove bracket with the KEYLESS-GO control unit and place to one side with connected lines.	Â	<a href="#">AR80.61-P-0002FR</a>
Â	<b>Unlock</b>	Â	Â
2	Turn lever (1) on fuel filler cap central locking system actuator (M14/10) in the direction of the arrow.	Â	Â
3	Install in the reverse order.	Â	Â

**REMOVE/INSTALL TANK FILLER RECESS - AR88.60-P-2001FR**

Model 257, 290

Shown on model 257 with code U79 (diesel exhaust gas cleaning BLUETEC (SCR) Generation 3)



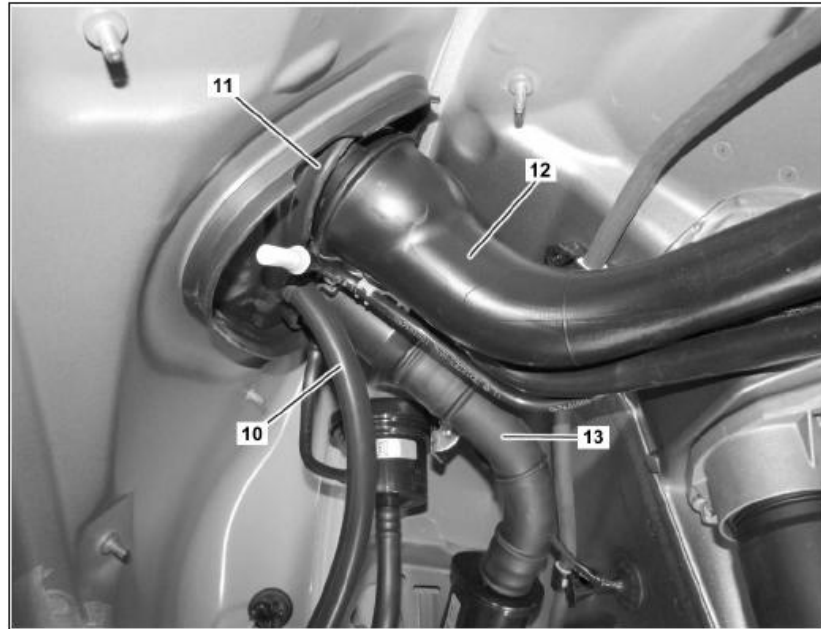
P88.60-2711-09

1 Tank filling recess	5 Catch hook	7 Catch hook
2 Check strap	6 Screwdriver	M14/10 Tank cap central locking actuator
3 AdBlue® cover		




Shown on model 257 with code U79 (diesel exhaust gas cleaning BLUETEC (SCR) Generation 3)




- 10 Drain hose
- 11 Seal
- 12 Filling tube
- 13 AdBlue® filling tube



P88.60-2572-06

 <b>Danger!</b>	<p><b>Risk of explosion</b> caused by fuel igniting, risk of poisoning caused by inhaling and swallowing fuel as well as risk of injury to eyes and skin caused by contact with fuel.</p>	<p>No fires, sparks, open flames or smoking. Pour fuels into suitable and appropriately marked containers only. Wear protective clothing when handling fuel.</p>	<p><a href="#">AS47.00-Z-0001-01A</a></p>
 <b>WARNING!</b>	<p><b>Risk of burn injuries</b> and scalding when working at AdBlue lines and the components attached to them. <b>Risk of injury</b> to skin and eyes when handling AdBlue. <b>Risk of poisoning</b> caused by swallowing AdBlue</p>	<p>Pour AdBlue into suitable containers only. Wait until the pressure is released before starting any work on the exhaust aftertreatment system.</p>	<p><a href="#">AS14.40-Z-0001-01A</a></p>
<p>Â</p>	<p>Notes on use, material properties and handling of AdBlueÂ®</p>	<p>Â</p>	<p>AH14.40-P-0001-01KOA</p>
	<p><b>Remove</b></p>	<p>Â</p>	<p>Â</p>
<p>1</p>	<p>Remove fender liner.</p>	<p>Â</p>	<p><a href="#">AR88.10-P-1302FR</a></p>
<p>2</p>	<p>Remove drain hose (10) from the tank filler recess (1).</p>	<p>Â</p>	<p>Â</p>
<p>3</p>	<p>Remove fuel filler flap.</p>	<p>Â</p>	<p>Â</p>
<p>4</p>	<p>Remove check strap (2) from tank flap hinge.</p>	<p>Â</p>	<p>Â</p>
<p>5.1</p>	<p>Remove rubber plugs (arrows).</p>	<p>If installed tank filling recess (1) has already been removed previously.</p>	<p>Â</p>
<p>5.2</p>	<p>Drill out recesses of the rubber plugs (arrows) with a 3 mm drill bit.</p>	<p>If installed tank filling recess (1) is being removed for the first time.</p>	<p>Â</p>
		<p>Model 257</p>	

6	Unscrew AdBlue® cap (3) from filler neck.	with code U79 (BLUETEC (SCR) diesel exhaust treatment, generation 3)	Â
7	Unclip catch hooks (5) and remove fuel filler cap central locking system actuator (M14/10) from the tank filler recess (1).	Â	Â
8	Disconnect electrical connector from the fuel filler cap central locking system actuator (M14/10).	Â	Â
9	Release catch hooks (7) in succession with a suitable screwdriver (6) through the bores (arrows) and, while doing so, pull the tank filler recess (1) out of the body opening.	Â	Â
10	Pull seal (11) over the fuel filler cap.	Lubricant, rubber assembly 1 l	<del>*BR00.45-Z-1010-06A</del>
11	Pull seal (11) over the AdBlue® filling tube (13).	Model 257 with code U79 (BLUETEC (SCR) diesel exhaust treatment, generation 3) Lubricant, rubber assembly 1 l	<del>*BR00.45-Z-1010-06A</del>
12	Remove tank filler recess (1).	Â	Â
13	Screw AdBlue® cap (3) onto the filler neck.	Model 257 with code U79 (BLUETEC (SCR) diesel exhaust treatment, generation 3) In the case of additional work.	Â
	<b>Install</b>	Â	Â
14	Unscrew AdBlue® cap (3) from filler neck.	Model 257 with code U79 (BLUETEC (SCR) diesel exhaust treatment, generation 3) If additional work was performed.	Â
15	Install rubber plugs (arrows) in the tank filler recess (1).	If reusing tank filling recess (1). Lubricant, rubber assembly 1 l	<del>*BR00.45-Z-1010-06A</del>
16	Pull seal (11) over the fuel filler cap.	Lubricant, rubber assembly 1 l	<del>*BR00.45-Z-1010-06A</del>
17	Pull seal (11) over the AdBlue® filling tube (13).	Model 257 with code U79 (BLUETEC (SCR) diesel exhaust treatment, generation 3) Lubricant, rubber assembly 1 l	<del>*BR00.45-Z-1010-06A</del>
18	Press tank filler recess (1) into the body opening until all catch hooks (7) are clipped in.	Â	Â

19	Connect electrical connector to the fuel filler cap central locking system actuator (M14/10).	Â	Â
20	Insert fuel filler cap central locking system actuator (M14/10) into the tank filler recess (1) and clip in catch hooks (5).	Â	Â
21	Screw AdBlue® cap (3) onto the filler neck.	Model 257 with code U79 (BLUETEC (SCR) diesel exhaust treatment, generation 3)	Â
22	Attach check strap (2) to the tank flap hinge.	Â	Â
23	Install fuel filler flap.	Â	Â
24	Guide seal (11) over the connection fitting of the drain hose (10).	Â	Â
25	Install drain hose (10) on the connection fitting	.	Â
26	Install fender liner in the right rear fender.	Â	<b>AR88.10-P-1302FR</b>

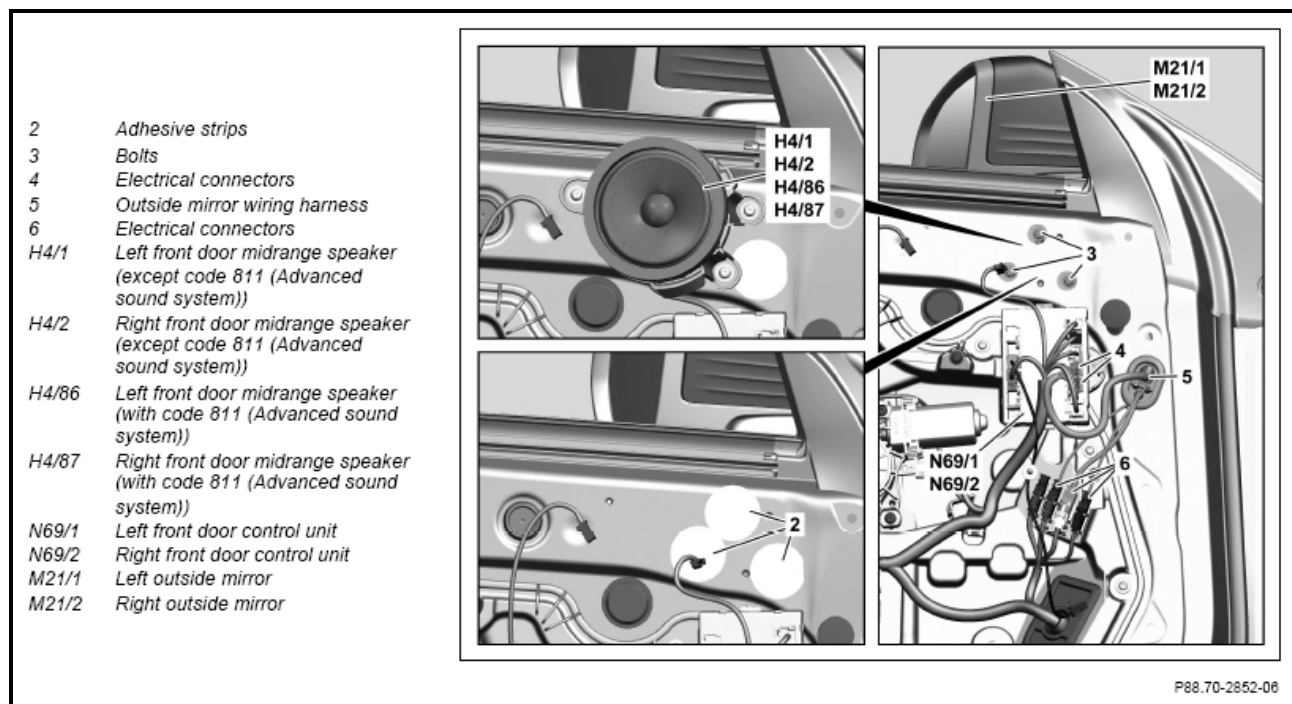
## REPAIR MATERIALS

Number	Designation	Order number
BR00.45-Z-1010-06A	Lubricant, rubber assembly 1 l	A 000 989 03 67

## REMOVE/INSTALL COMPLETE OUTSIDE MIRROR - AR88.70-P-9000FR

Model 257, 290

Shown on removed front door



	<b>WARNING!</b>	<b>Risk of injury</b> caused by fingers being jammed or pinched when removing, installing or aligning	No parts of the body or limbs should be within the operating	<b>AS00.00-Z-0011-</b>
--	-----------------	-------------------------------------------------------------------------------------------------------	--------------------------------------------------------------	------------------------

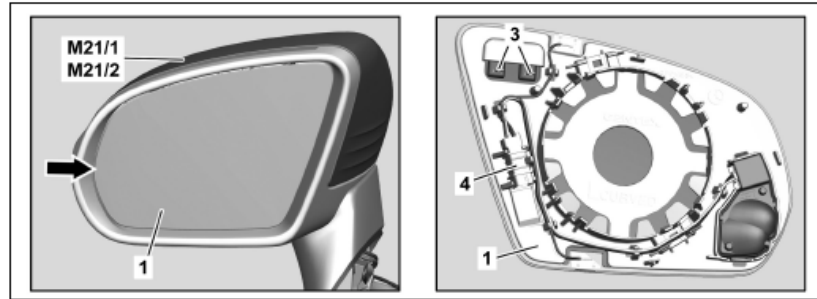
	hoods, doors, trunk lid/rear-end door or sliding roof.	area when the components are moving.	<a href="#">01A</a>
Topical note	Information on preventing damage to electronic components due to electrostatic discharge	Â	<a href="#">AH54.00-P-0001-01A</a>
	<b>Remove/install</b>	Â	Â
1	Remove door trim on front door.	Â	<a href="#">AR72.10-P-6575FR</a>
2	Remove front door mid-range speaker (H4/1, H4/2, H4/86, H4/87).	Â	Â
3	Disconnect electrical connectors (4) from front door control unit (N69/1, N62/2).	Â	Â
4	Disconnect electrical connectors (6).	 Depending on the equipment installed, the number of electrical connectors (6) can vary.	Â
5	Use tape to fasten pull-through aid with a length of approx. 2 m to the electrical connectors (6).	Â	Â
6	Press grommet of the outside mirror wiring harness (5) into the front door.	Â	Â
7	Remove adhesive strips (2) over the screws (3).	 <b>Installation</b> Replace adhesive strips (2).	Â
8	Remove screw/bolts (3).	Â	Â
9	Remove outside mirror (M21/1, M21/2) from the front door and pull out outside mirror wiring harness (5) until approx. 30 cm of the pull-through aid is visible.	Â	Â
10	Remove pull-through aid from the electrical connectors (6), fasten with tape to the front door and place the outside mirror (M21/1, M21/2) to one side.	Â	Â
11	Install in the reverse order.	Â	Â
Â	<b>Calibrate</b>	Â	Â
12	Calibrate all the cameras in the 360° camera system using the vehicle diagnosis system.	Â	Â
	Â	Model 257, 290 with code 501 (360° camera)	<a href="#">AD00.00-P-2000-06FR</a>

## REMOVE/INSTALL MIRROR GLASS - AR88.70-P-9020FR


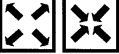

Model 257, 290



- 1 Mirror glass
- 3 Electrical connections
- 4 Electrical connector
- M21/1 Left outside mirror
- M21/2 Right outside mirror



P88.70-2853-04

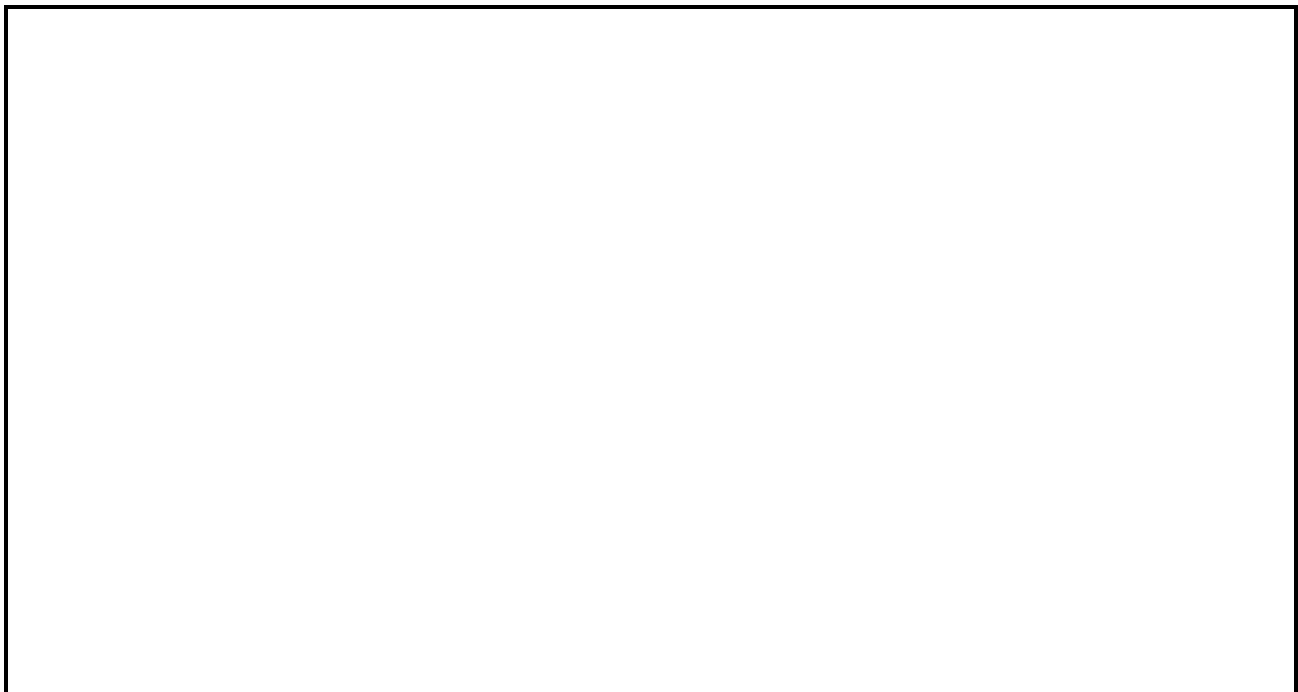
 <b>WARNING!</b>	<b>Risk of injury</b> caused by irritation of the skin, eyes and respiratory system through contact or inhalation of substances contained in the mirror lens.	Wear protective gloves and safety glasses.	<a href="#">AS60.00-Z-0008-01R</a>
	<b>Remove/install</b>	Â	Â
1	Tilt out mirror glass (1) on the outside (arrow).	Â	Â
2	Carefully unclip mirror glass (1) with long wedge from the outside mirror (M21/1, M21/2).	 Long wedge	<a href="#">Fig. 13</a>
3	Detach female spade connectors from the electrical connections (3).	Â	Â
4	Disconnect electrical plug (4).	Â	Â
5	Install in the reverse order.	Â	Â

**Fig. 13: Identifying Long Wedge (115 589 03 59 00)**

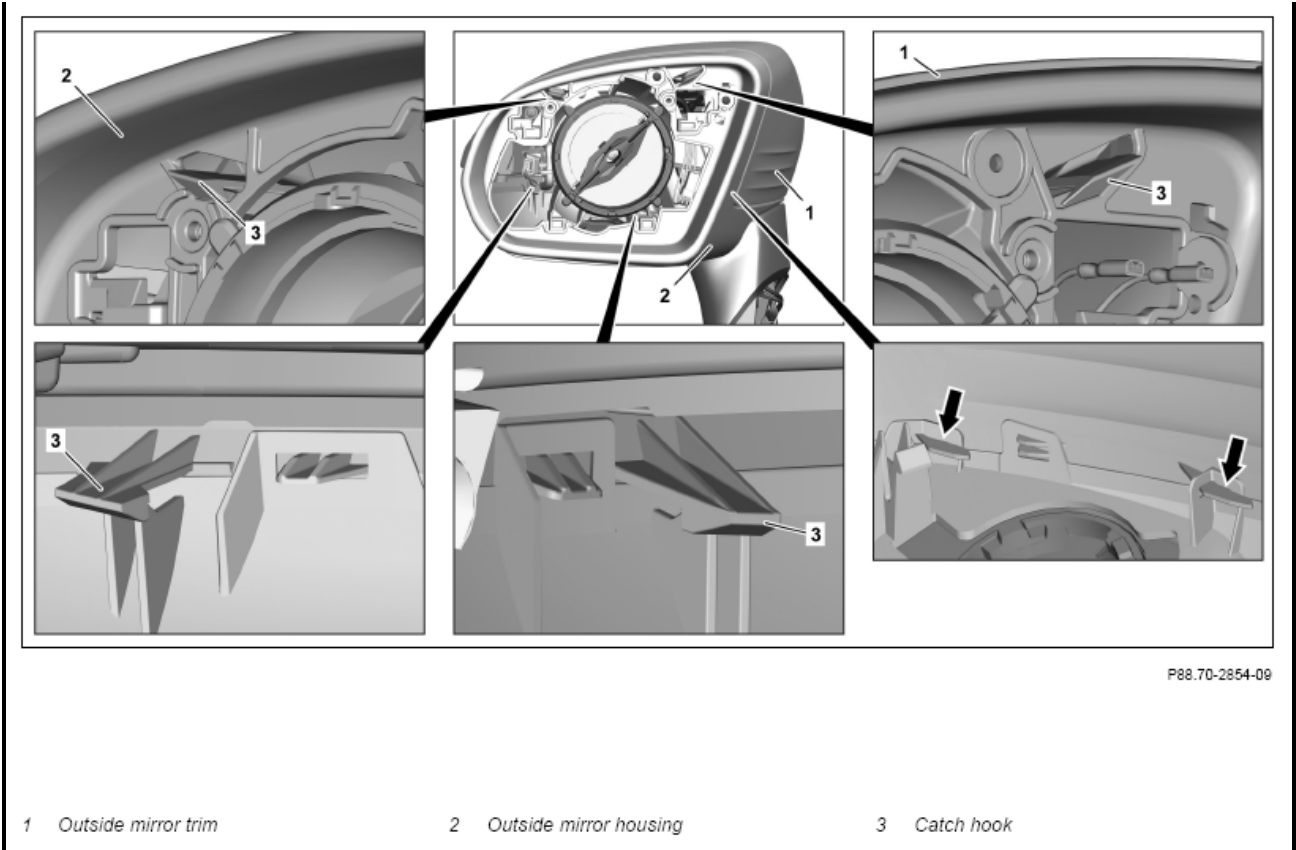
Courtesy of MERCEDES-BENZ USA

**REMOVE/INSTALL OUTSIDE MIRROR TRIM - AR88.70-P-9040FR**


Model 257, 290







**Shown on removed left outside mirror**

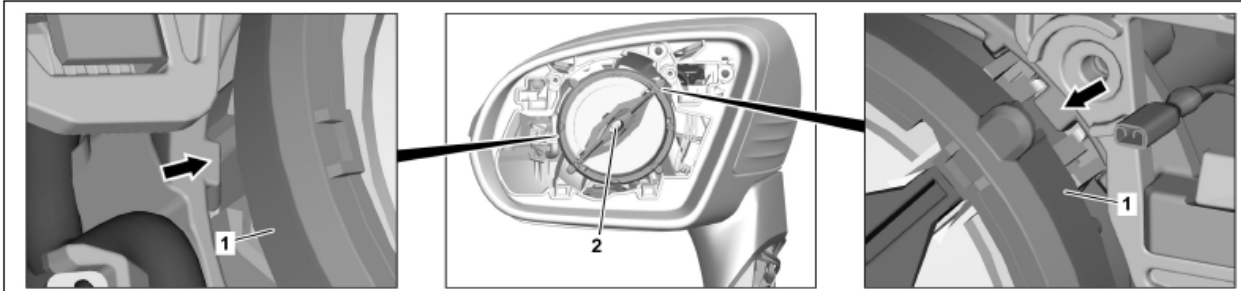
	Remove/install	Â	Â
1	Remove mirror lens.	Â	<a href="#">AR88.70-P-9020FR</a>
2	Release catch hooks (3) and remove outside mirror trim (1) toward the front from the outside mirror housing (2).	<b>i</b> <b>Installation</b> Move guides (arrows) on outside mirror paneling (1) at inside into outside mirror housing (2).	Â
3	Install in the reverse order.	Â	Â

**REMOVE/INSTALL GLASS ADJUSTMENT DRIVE - AR88.70-P-9060FR**

**Model 257, 290**









P88.79-2388-07

1 Glass adjustment drive

2 Screw

**Shown on removed left outside mirror**

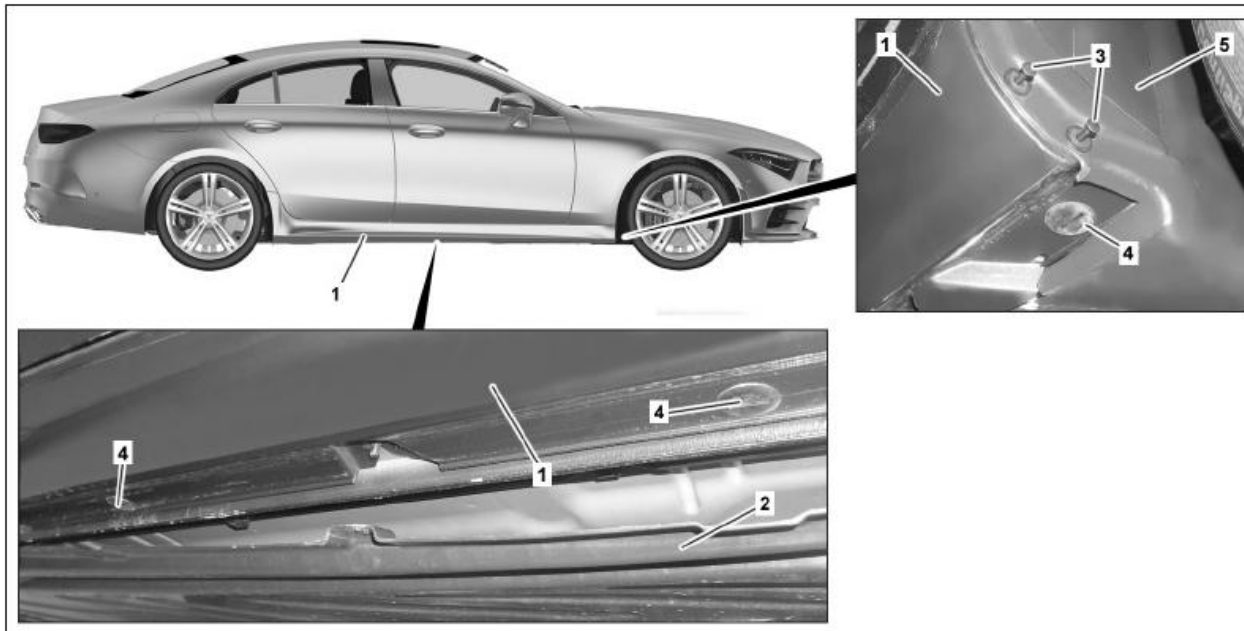
 	Remove/install	^	^
1	Remove outside mirror trim.	^	<a href="#">AR88.70-P-9040FR</a>
2	Disconnect electrical connector of the glass adjustment drive (1).	^	^
3	Remove screw/bolt (2).	^	^
4	Release catch hooks (arrows) and remove glass adjustment drive (1).	^	^
5	Install in the reverse order.	^	^

**REMOVE/INSTALL LONGITUDINAL MEMBER PANELING - AR88.80-P-6000FR**

**Model 257, 290**

**MODIFICATION NOTES**

31.03.2020	Method extended	Operation step 12	^
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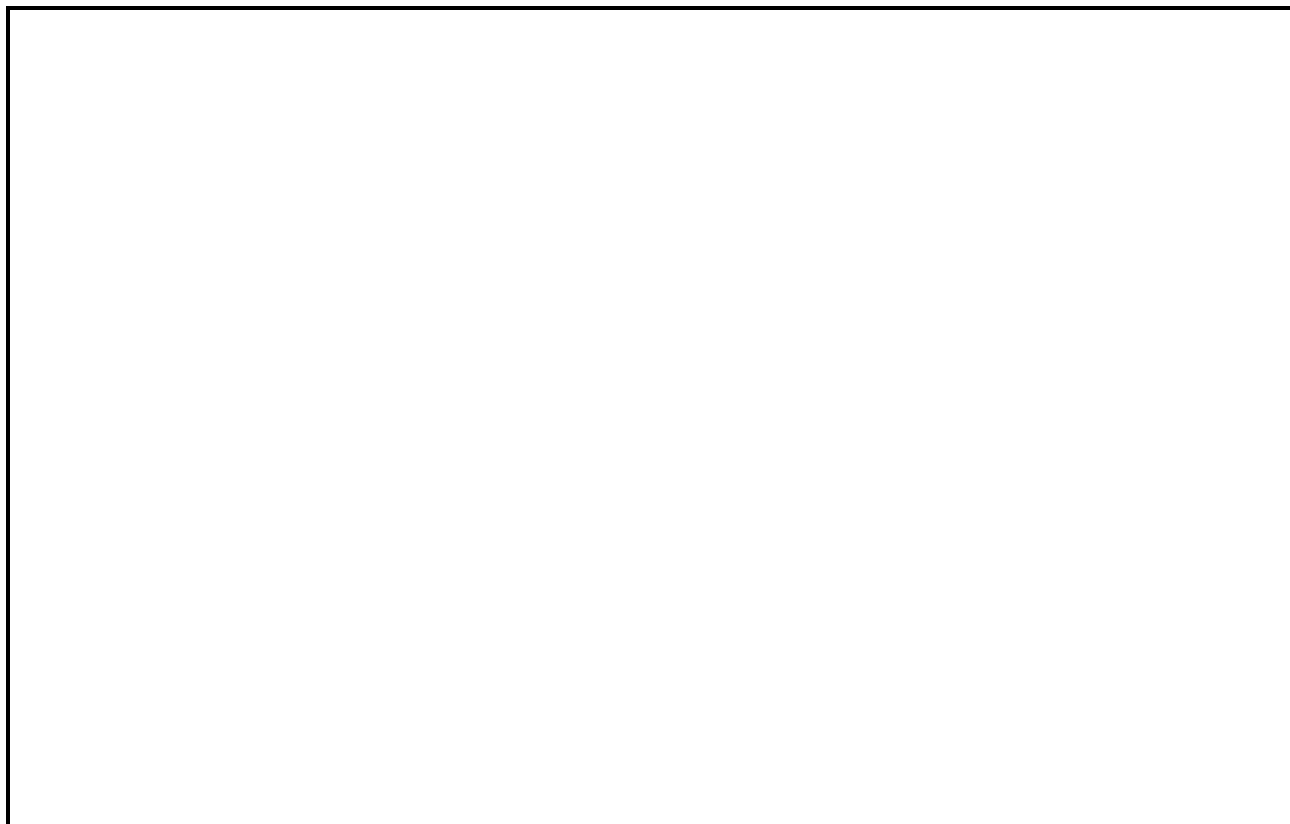


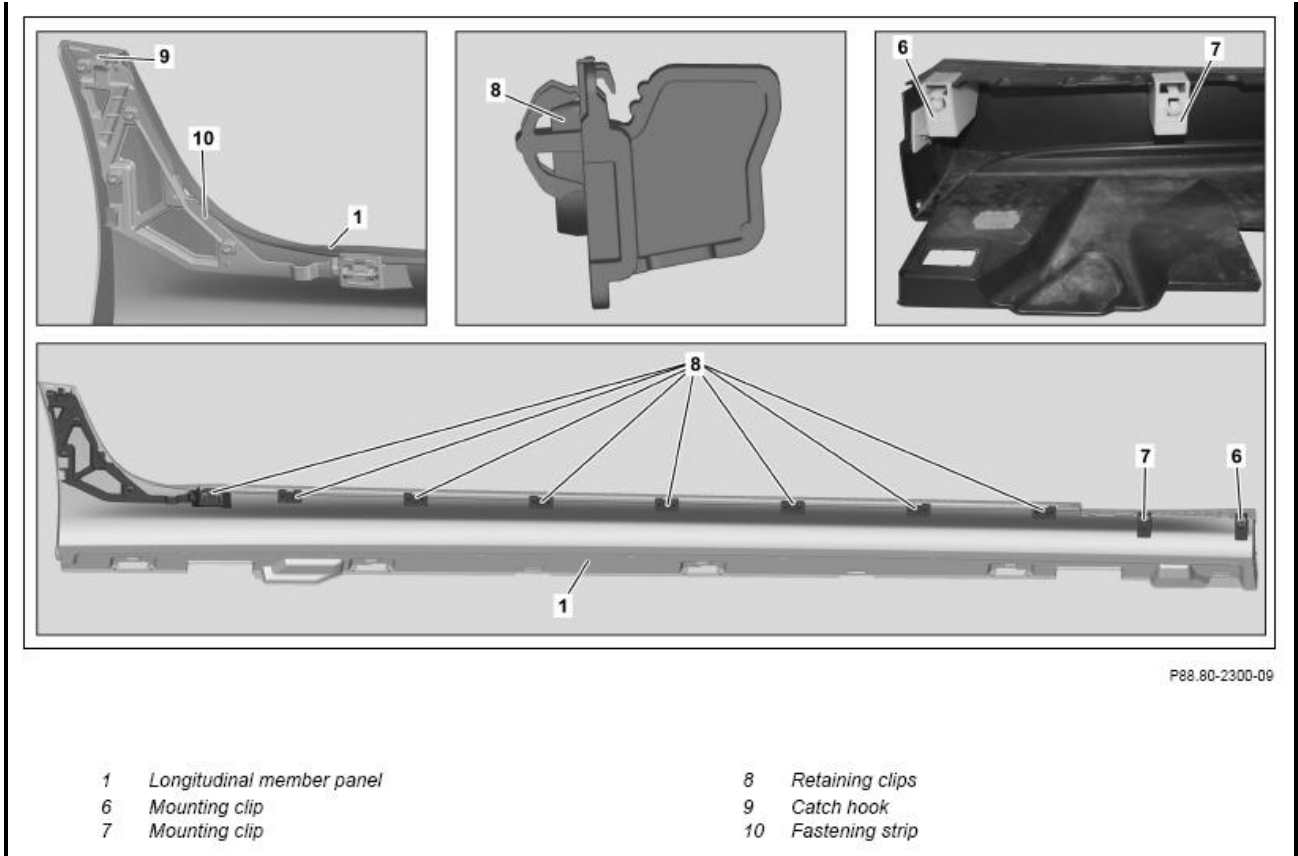
P88.80-2284-09

- 1 Longitudinal member panel
- 2 Underfloor paneling
- 3 Expansion rivet

- 4 Mounting clip
- 5 Front to liner





Shown on model 257 on left side of vehicle





Shown on model 257 on left side of vehicle

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	Release underfloor paneling (2) in the area of the longitudinal member panel (1) and pull downward over the mounting bolts.	Â	<a href="#">AR61.30-P-1001FR</a>
2	Remove expansion rivets (3).	Â	Â
3	Turn retaining clips (4) 90° and remove.	Â	Â
4	Open front door.	Â	Â
5	Open rear door.	Â	Â
6	Mask off rear door in front bottom area with tape.	Â	Â
7	Mask off longitudinal member panel (1) and body in the area of the retaining clips (6, 7) and catch hook (9) with tape.	Â	Â
8	Press front fender liner (5) to the side until the retaining clip (6) below is accessible.	Â	Â
9	Unclip retaining clip (6) with suitable pliers from the front fender and secure longitudinal member panel (1) against engaging again with a long wedge.	Long wedge	<a href="#">Fig. 14</a>
	Unclip retaining clip (7) with a suitable screwdriver from the		

10	front fender and secure longitudinal member panel (1) against engaging again with a long wedge.	 Long wedge	<a href="#">Fig. 14</a>
11	Unclip longitudinal member panel (1), starting from the rear, upwards out of retaining clips (8) using an extraction hook.	 Extraction hook	<a href="#">Fig. 15</a>
12	Release and disconnect upper electrical connector of logo projector.	Model 290 with code 588 (AMG light display)	Â
13	Release catch hook (9) with a suitable tool and remove longitudinal member panel (1) upwards out of mounting strip (10).	Â	Â
14	Remove retaining clips (6, 7) from the longitudinal member panel (1) and clip into front fender.	 <b>Installation</b> Replace damaged retaining clips (6, 7).	Â
15	Remove retaining clips (8) that remain on vehicle as well as mounting strip (10) from rear fender and attach to longitudinal member panel (1).	 <b>Installation</b> Replace damaged retaining clips (8).	Â
16	Install in the reverse order.	Â	Â

**[Fig. 14: Identifying Long Wedge \(115 589 03 59 00\)](#)**

Courtesy of MERCEDES-BENZ USA

**[Fig. 15: Identifying Extraction Hook \(140 589 02 33 00\)](#)**

Courtesy of MERCEDES-BENZ USA

## **TEST & ADJUSTMENT VALUES**

### **TEST AND ADJUSTMENT VALUES: PASSENGER CARS: DETACHABLE BODY COMPONENTS, EXTERIOR FLAPS - BE88.00-Z-9999AZ**

#### **MODEL all**

Â	Gap dimension bumper	MODEL 202, 203, 208.3/4, 209, 210	BE88.20-P-1000-01A
Â	Engine hood	MODEL 202 up to 31.10.93	BE88.40-P-1000-01A
Â	Trunk lid	MODEL 170	BE88.50-P-1000-01A
Â	Liftgate	Model 290	BE88.50-P-1000-03A

## **RETROFITTING & CONVERSION**

### **SUBSEQUENTLY MODIFY MIRROR HOUSING - AN88.70-P-0006FR**

**Model 257.3 (except 257.361)**

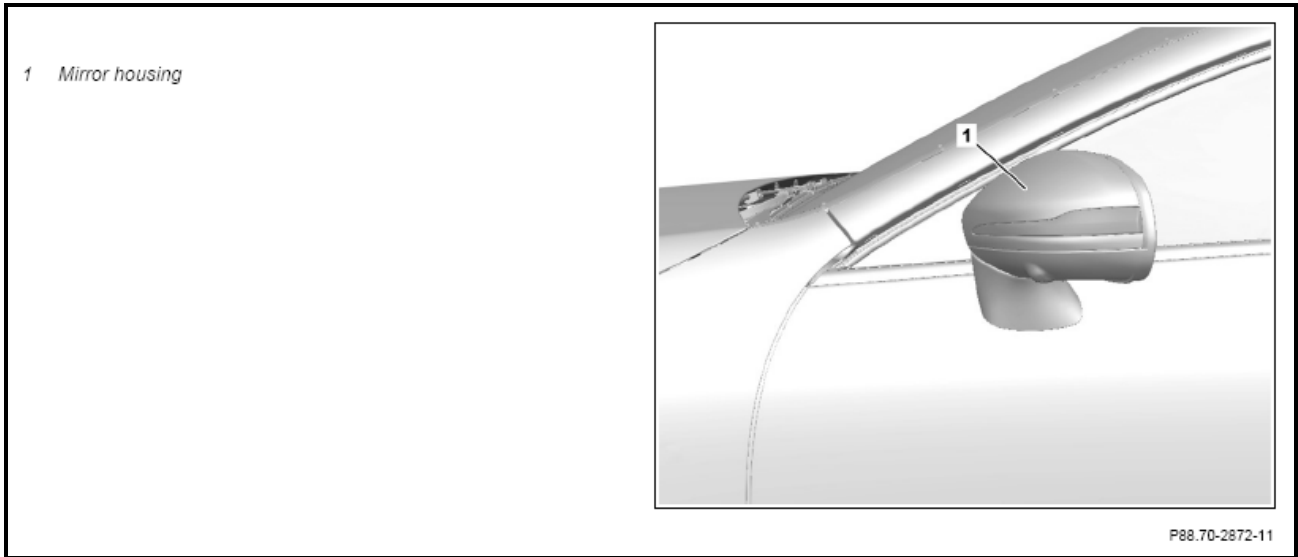
**except code 040 (black)**

**except code 197 (Obsidian black)**

**except code 830 (China version)**

**except code P55 (Night package)**

except code P60 (AMG Night package)



	<b>Remove</b>	Â	Â
1 	Remove mirror housings (1) Â	Â Mirror housings (1) are eliminated parts.	Â <a href="#">AR88.70-P-9040FR</a>
	<b>Install</b>	Â	Â
2 	Install new mirror housings (1) Â	Â	Â <a href="#">AR88.70-P-9040FR</a>
Â	<b>Update Vehicle Documentation (VeDoc)</b>	Â	Â
3	Attach note "Mirror housing retrofitted as per AN88.70-P-0006FR" under field organization texts to design group 88	Â	Â

**PARTS ORDERING NOTE**

Part no.	Designation	Quantity
KG 99 (see EPC)	Mirror housing, package contents	1

**RETROFIT WIRING HARNESS FOR FRONT ILLUMINATED MERCEDES STAR - AZ88.40-P-0011-01FR**

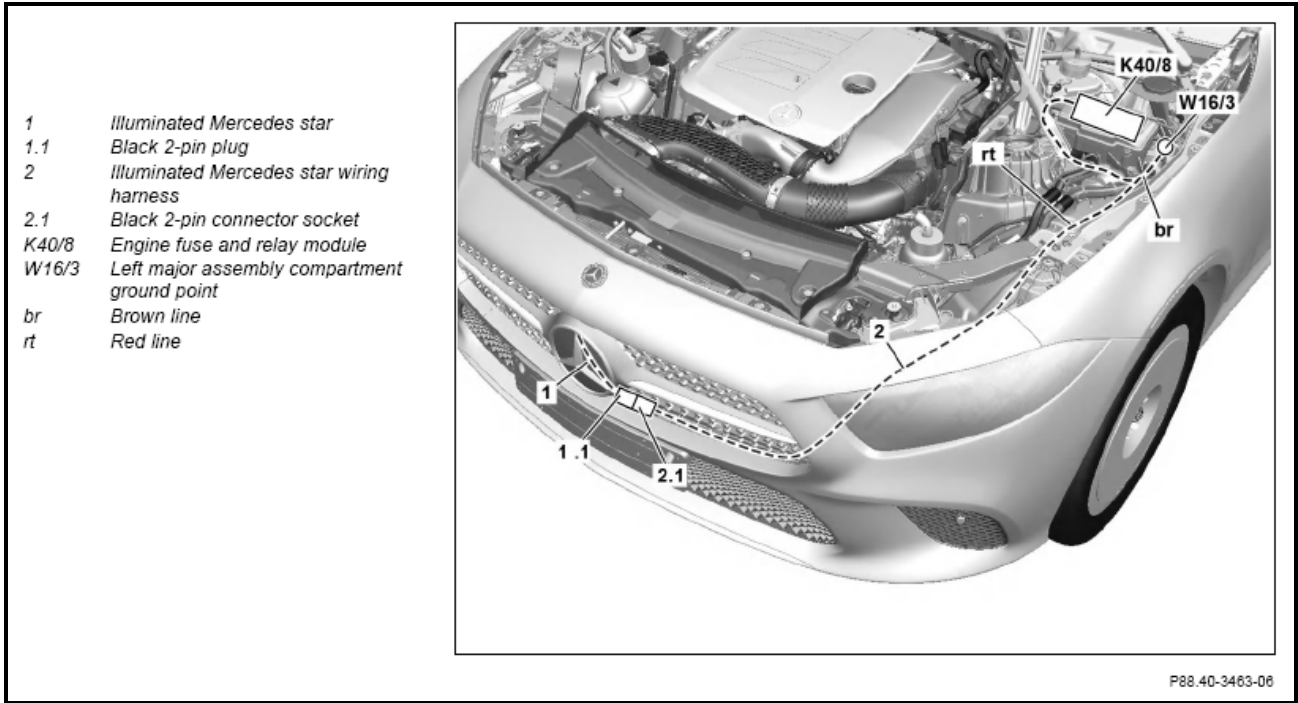
**Model 257.3**


Topical note	Information on preventing damage to electronic components due to electrostatic discharge	Â	<a href="#">AH54.00-P-0001-01A</a>
Topical			<a href="#">AH00.19-P-1000-</a>

**GROUND POINTS**


Number	Designation	Model 257
BA00.19-P-1014-02D	Left major assembly compartment ground point W16/3 Nm	10

**Routing diagram**



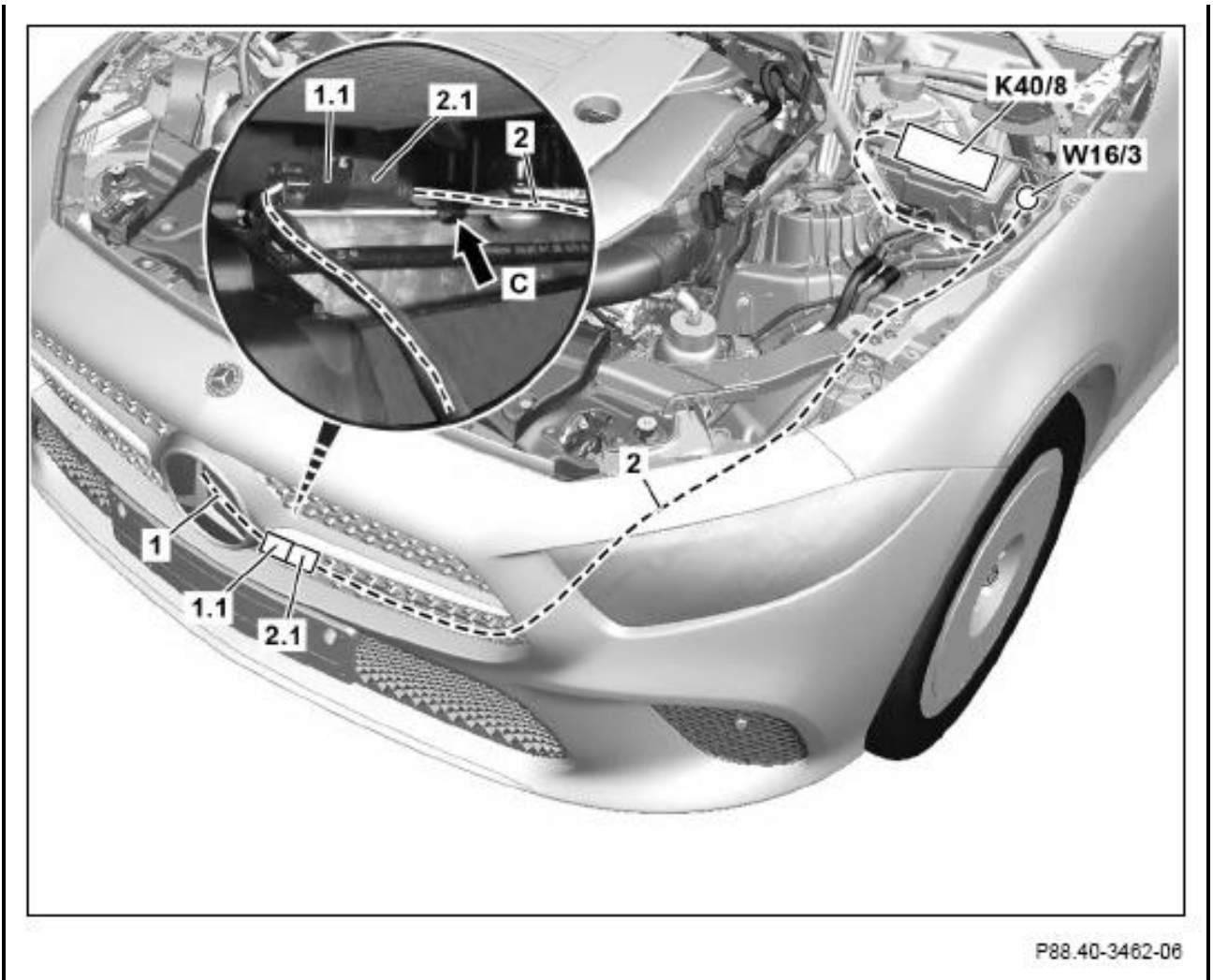
 Do not damage the electrical wiring harnesses by squeezing or pinching them. This can cause a short circuit in the electric circuit.

1. Route illuminated Mercedes star wiring harness (2) from installation location of illuminated Mercedes star (1) to engine fuse and relay module (K40/8) and to left major assembly compartment ground point (W16/3).

 Route illuminated Mercedes star wiring harness (2) along the hood cable.

Route illuminated Mercedes star wiring harness (2) such that the black 2-pin plug (1.1) can be connected to the black 2-pin connector socket (2.1) at a later stage.





2. Route brown line (br) to left major assembly compartment ground point (W16/3) and fix in place with cable ties.

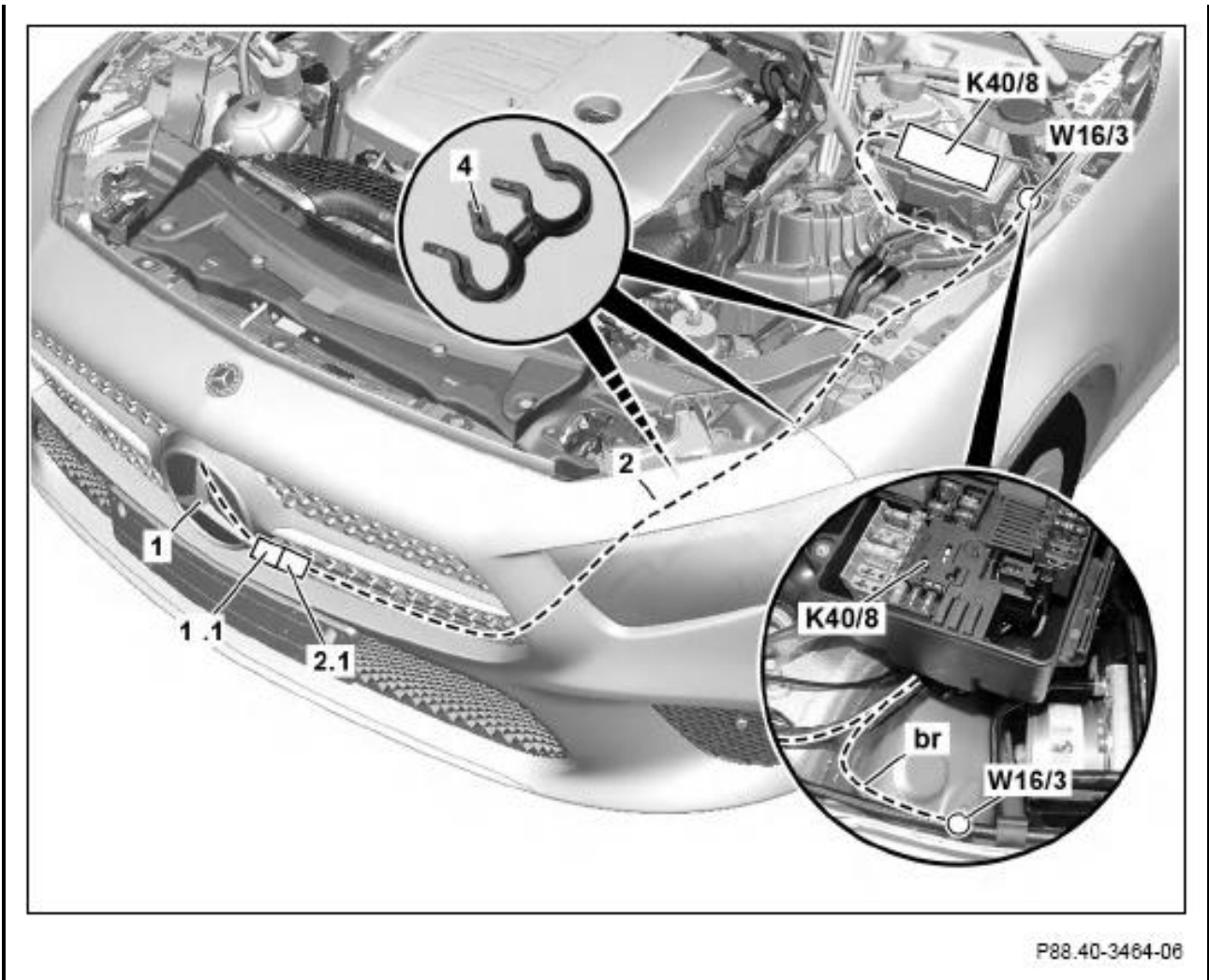
**i** A maximum of 5 ground connections may be connected, otherwise use other ground point.

Route brown line (BN) such that the red line can be connected to the engine fuse and relay module (K40/8) at a later stage.

3. Connect brown line (br) to left major assembly compartment ground point (W16/3) **Nm**.
4. Fix illuminated Mercedes star wiring harness (2) in place along the hood cable with 3 clamps (4).

**i** The clamps (4) are included in the parts kit.



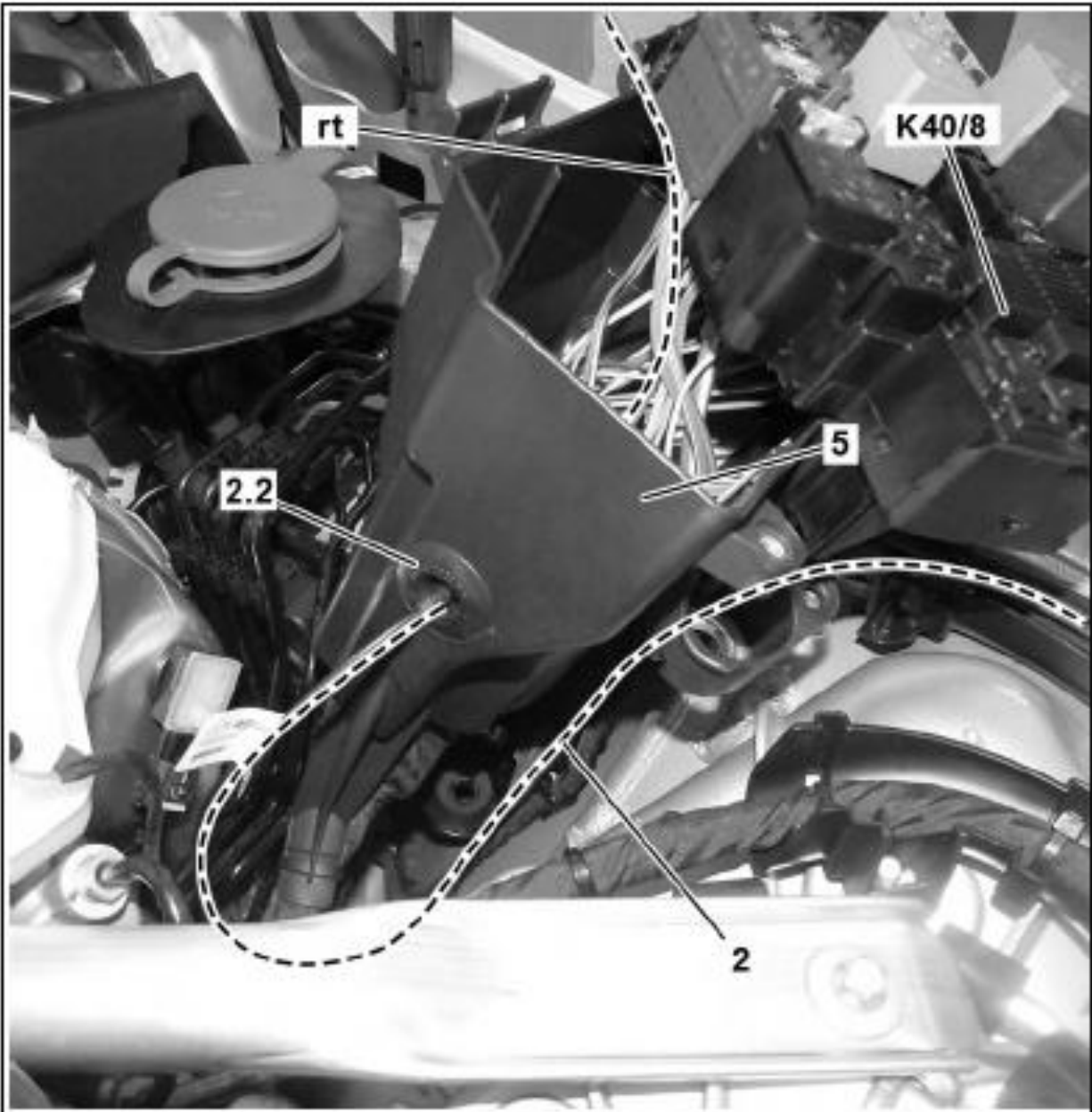


5. Route red line (RD) through the previously made hole in the bracket (5) to the engine fuse and relay module (K40/8).
6. Insert grommet (2.2) of illuminated Mercedes star wiring harness (2) in the previously made hole of the bracket (5).

**i** Make sure that grommet (2.2) is seated correctly.





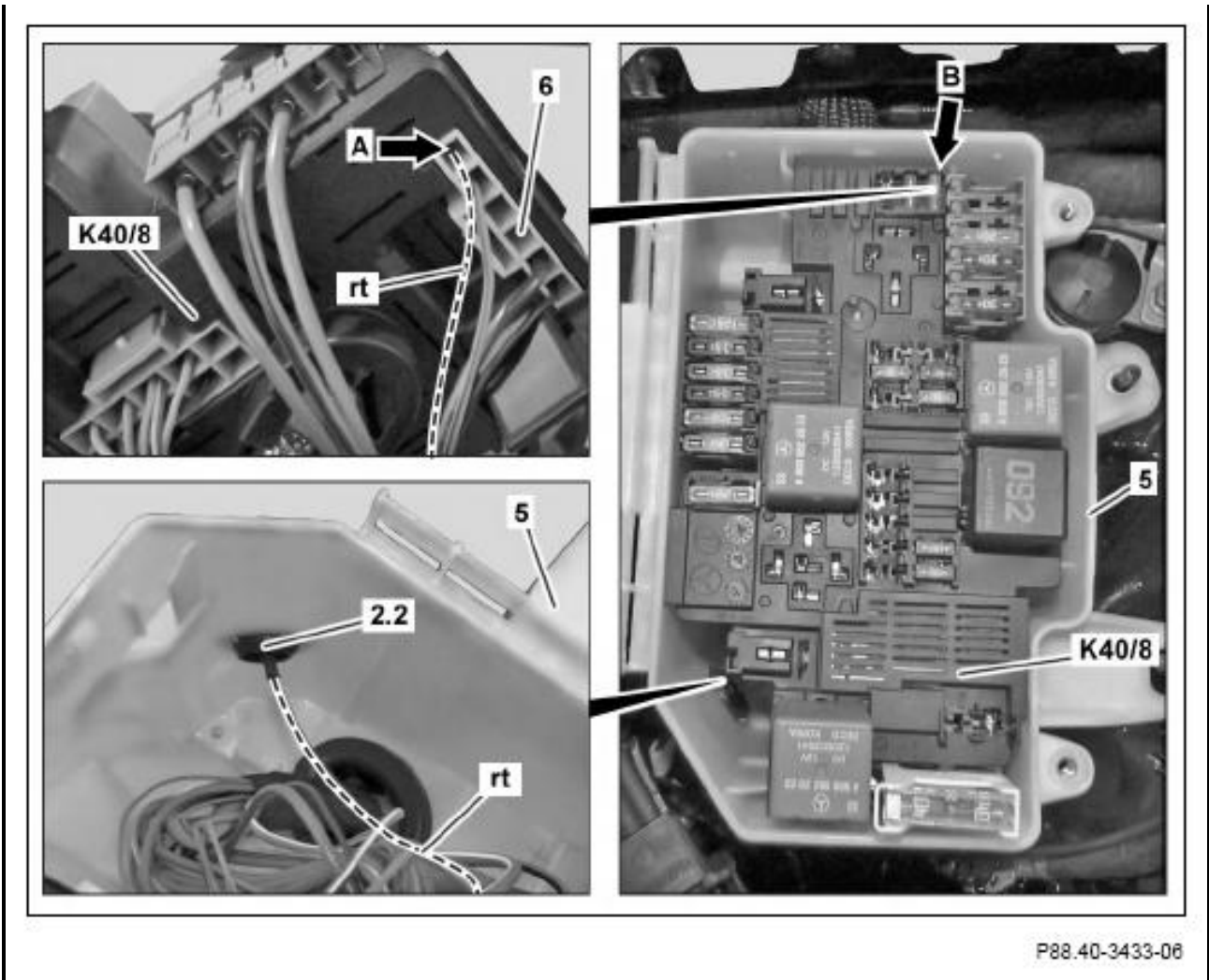


P88.40-3456-12

7. Install red line (RD) in top contact cavity (arrow A) of pink-colored 2-pin connector socket (6).
8. Install engine fuse and relay module (K40/8) in bracket (5).

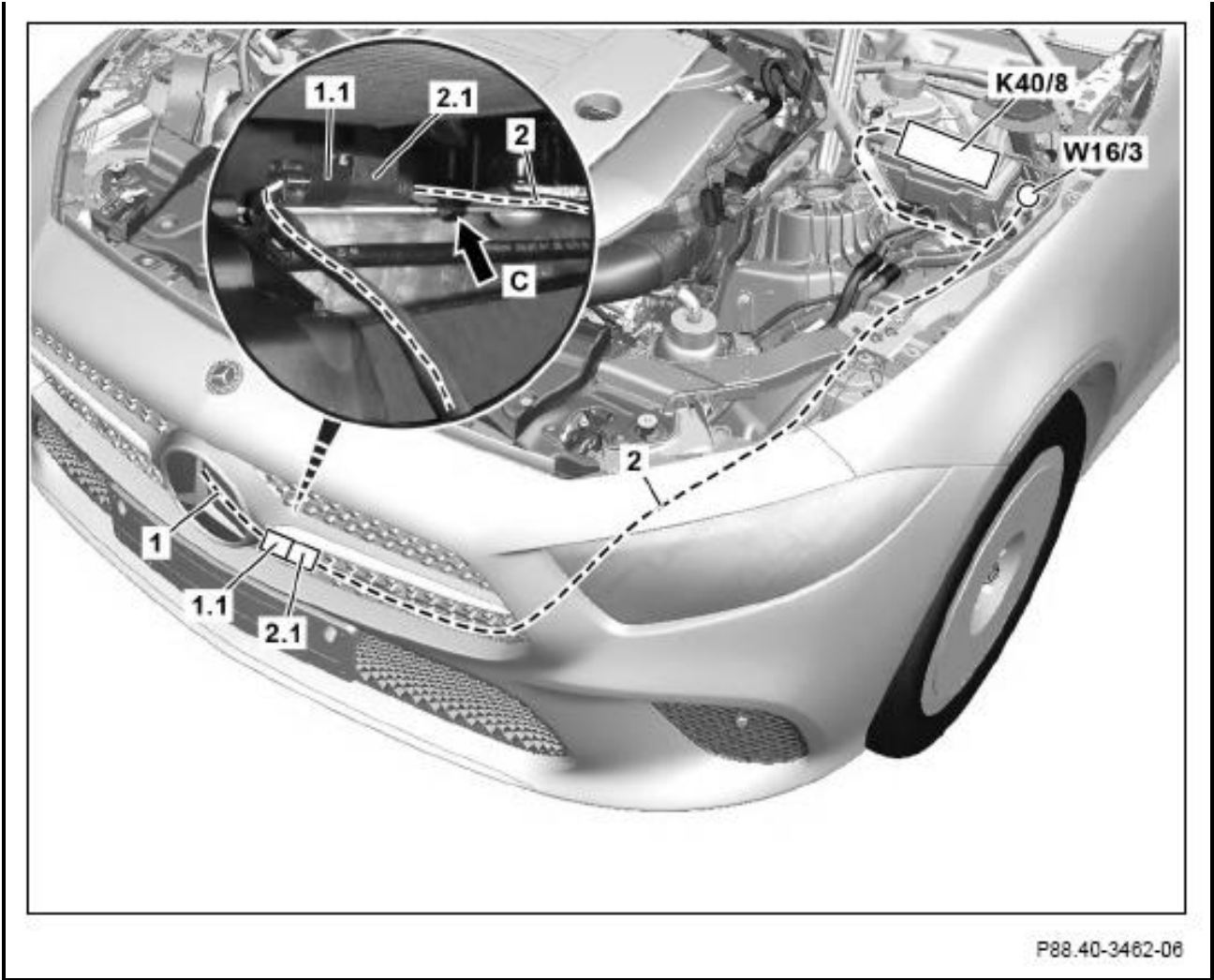
**i** Observe grommet (2.2) and routing of red line (RD).

9. Insert a fuse with a fuse rating of 5 A into slot (arrow B).



10. Install illuminated Mercedes star (1).
11. Connect black 2-pin plug (1.1) of illuminated Mercedes star (1) to black 2-pin connector socket (2.1) of illuminated Mercedes star wiring harness (2).
12. Fasten the created electrical connector to the crossmember (arrow C) with cable ties.
13. Fasten illuminated Mercedes star wiring harness (2) to the bumper with cable ties in the area of the crossmember.

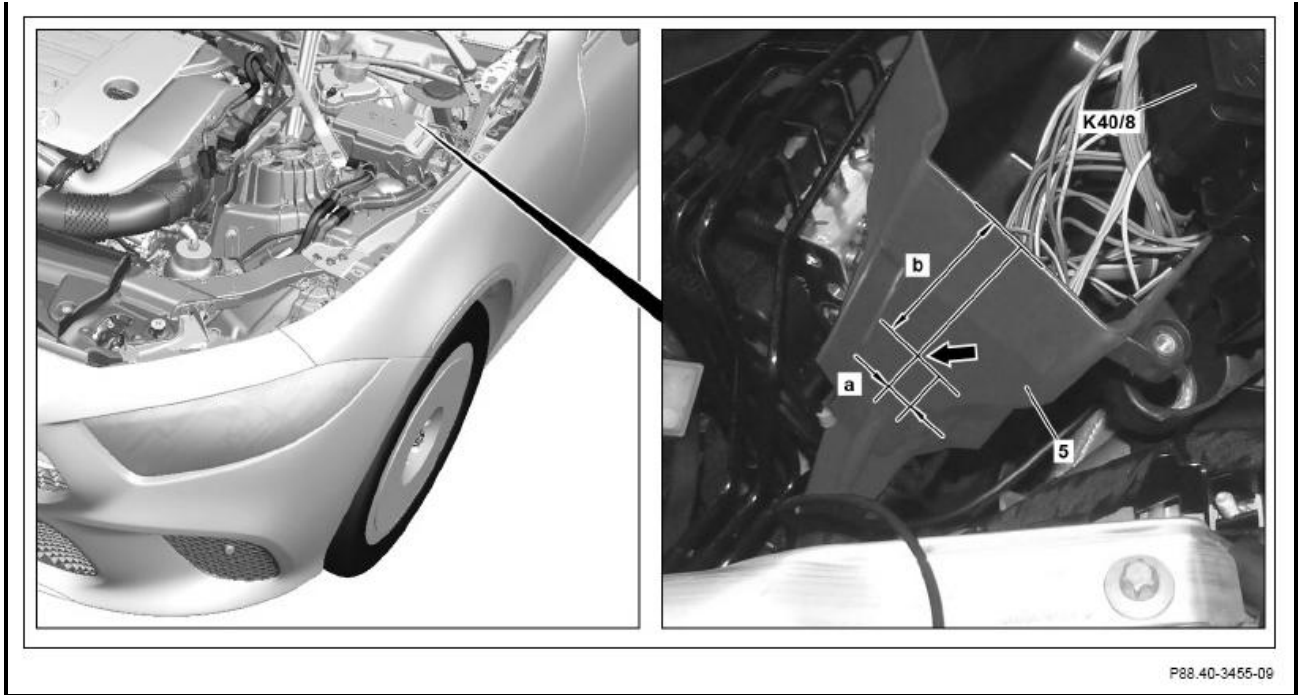




**PREPARE HOLDER OF ENGINE FUSE AND RELAY MODULE FOR RETROFITTING WIRING HARNESS FOR FRONT ILLUMINATED MERCEDES STAR - AZ88.40-P-0011-03FR**

Model 257.3






1. Mark bore center point on the bracket (5) based on the dimensions (a, b).

**i** **Dimensions:**

a = 20 mm (0.78 inches)

b = 85 mm (3.34 inches)

2. Drill a hole with a diameter of 18 mm (0.71 inches) at the marked point (arrow).

 Do not drill hole too deep.

Otherwise the engine fuse and relay module (K40/8) may be damaged.

3. Deburr bore on both sides.
4. Remove drilling chips.

**RETROFIT FRONT ILLUMINATED MERCEDES STAR - AZ88.40-P-0011FR**

**Model 257.3**

**with code 460 (Canada version)**

**except code 233 (Adaptive cruise control Plus (DISTRONIC PLUS))**

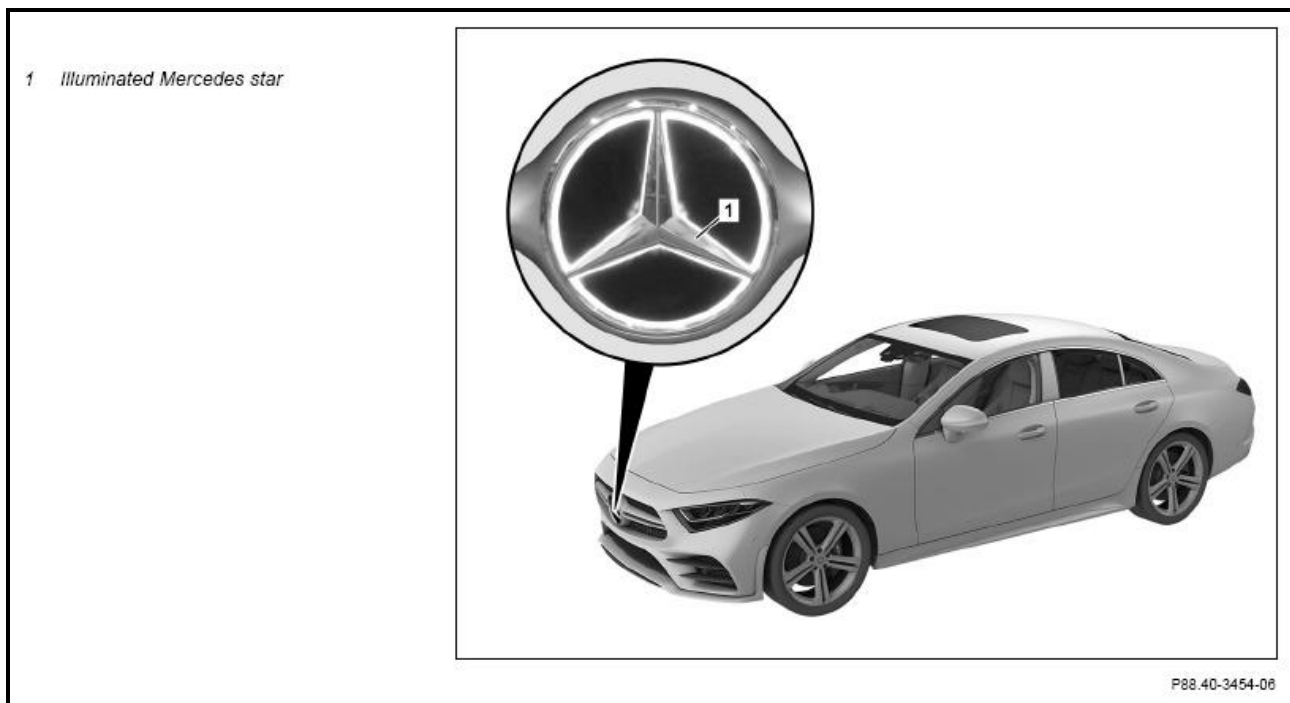
**except code 239 (Adaptive cruise control Pro (DISTRONIC PRO))**

**Model 257.3**

**with code 494 (US version)**







except code 233 (Adaptive cruise control Plus (DISTRONIC PLUS))

except code 239 (Adaptive cruise control Pro (DISTRONIC PRO))



P88.40-3454-06

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 AR	Remove Mercedes star in radiator grille. Â	Â The Mercedes star is no longer required.	<a href="#">AR88.40-P-4053FR</a>
2 AR	Disconnect ground line from battery. Â	Â Â	<a href="#">AR54.10-P-0003FR</a>
3 AR	Remove Active Brake Assist electric controller unit. Â	Model 257.3 with code 258 (Active Brake Assist) up to model year 2021 Â	Â <a href="#">AR54.21-P-0700FR</a>
4	Remove Active Brake Assist bracket.	Model 257.3 with code 258 (Active Brake Assist) up to model year 2021 The Active Brake Assist bracket is no longer	Â

		required. The new bracket is included with the parts kit for the illuminated Mercedes star.	
5	Release and disconnect engine fuse and relay module (K40/8) and place to one side.	Â	Â
	<b>Install</b>	Â	Â
6	Prepare the bracket of the engine fuse and relay module (K40/8) for the retrofit of the wiring harness for the illuminated Mercedes star (1).	Â	<a href="#">AZ88.40-P-0011-03FR</a>
7	Install wiring harness for illuminated Mercedes star (1) and illuminated Mercedes star (1).	Â	<a href="#">AZ88.40-P-0011-01FR</a>
Topical note	Notes on the use of paint scraping nuts on ground connections	Â	<a href="#">AH00.19-P-1000-20A</a>
Â	Â	 Left major assembly compartment ground point	<a href="#">*BA00.19-P-1014-02D</a>
8	Install new Active Brake Assist bracket.	Model 257.3 with code 258 (Active Brake Assist) up to model year 2021	Â
9	Install Active Brake Assist electric controller unit.	Model 257.3 with code 258 (Active Brake Assist) up to model year 2021	Â
 <b>AR</b>	Â	Â	<a href="#">AR54.21-P-0700FR</a>
10	Commission Active Brake Assist electric controller unit.	Model 257.3 with code 258 (Active Brake Assist) up to model year 2021	Â
 <b>AD</b>	Â	Â	<a href="#">AD00.00-P-2000-06FR</a>
	<b>Check</b>	Â	Â
11	Carry out operational check.	 The illuminated Mercedes star (1) is switched on when the ignition is switched on.	Â
Â	<b>Update Vehicle Documentation (VeDoc)</b>	Â	Â
12	Attach note "Illuminated	Â	Â

Mercedes star retrofitted as per AZ88.40-P-0011FR" under field organization texts for DG 88 and DG 54.
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**GROUND POINTS**

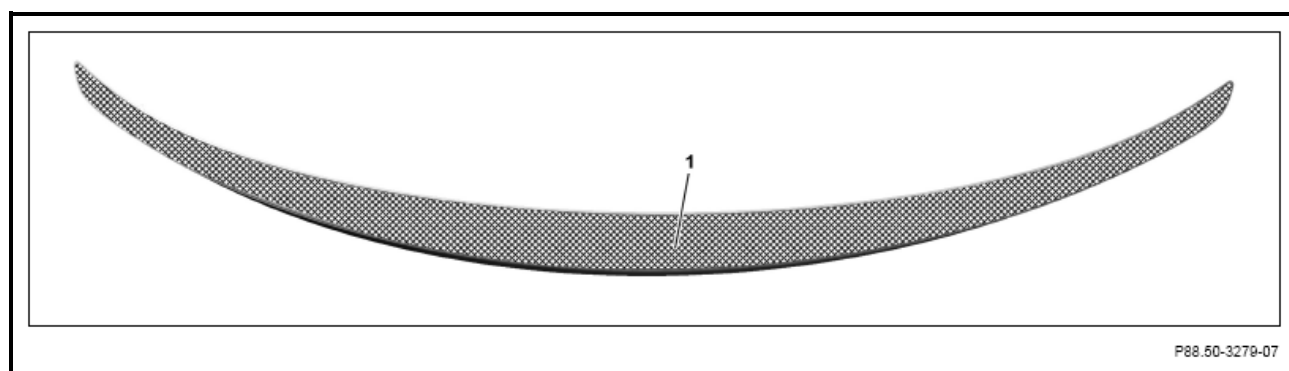
Number	Designation	Model 257
BA00.19-P-1014-02D	Left major assembly compartment ground point	W16/3 Nm 10

**PARTS ORDERING NOTE**

Part no.	Designation	Quantity
KG 98 (see EPC)	Illuminated Mercedes star parts kit.	1

**PAINT REAR SPOILER - AZ88.50-P-0005-01FR**

**Model 257.3**



**i** Use only paint and paint system approved by Daimler AG.

Maximum drying temperature 60°C or 140°F.

1. Mask crosshatched areas on inside of rear spoiler (1).

**i** Ensure that paint or paint fog does not get onto the inside of the rear spoiler (1) or adhesive strips.

2. Treat rear spoiler (1) according to Daimler AG painting guidelines and paint outsides of rear spoiler (1) to match vehicle color.

**i** The outsides of the rear spoiler (1) are already primed light gray.

3. Remove masking material from rear spoiler (1) after paint is cured.

**INSTALL REAR SPOILER ON TRUNK LID - AZ88.50-P-0005-02FR**

**Model 257.3**

**REPAIR MATERIALS**

Number	Designation	Order number



**i** Helper required to assemble rear spoiler (1).

1. Install rear spoiler (1) on trunk lid, center and mark position with adhesive tape (2).

**i** The distances between the rear spoiler (1) and the outer edges of the trunk lid must be uniform.

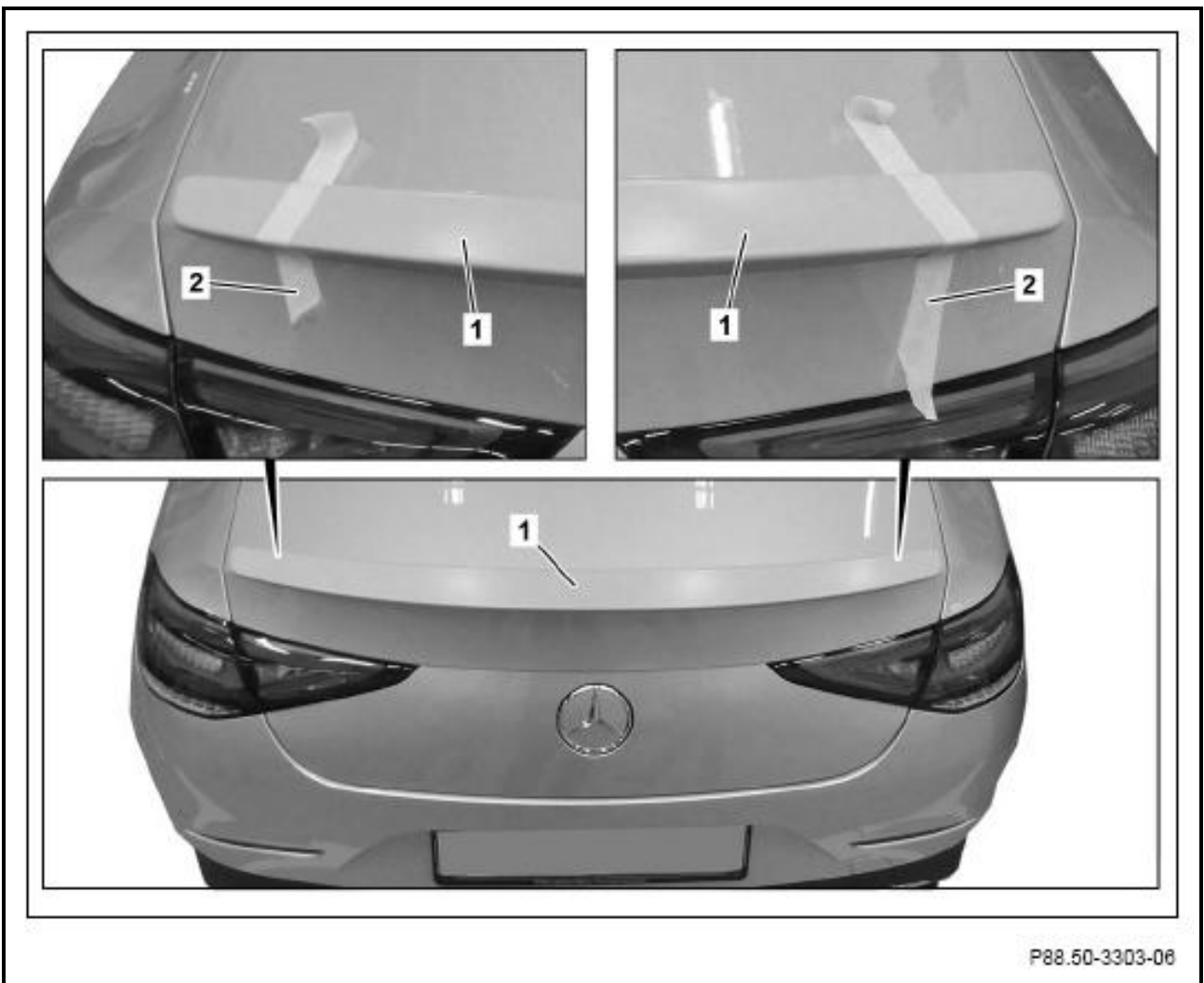
Align rear spoiler (1) according to shape of trunk lid as well as upper radius of edge of trunk lid.

Align rear spoiler (1) according to trunk lid so that it runs uniformly over the entire length of the trunk lid.

2. Cut adhesive tapes (2) in joint between rear spoiler (1) and trunk lid with commercially available knife.

**!** Carefully cut adhesive strips (2).

Otherwise damage may occur.



P88.50-3303-06

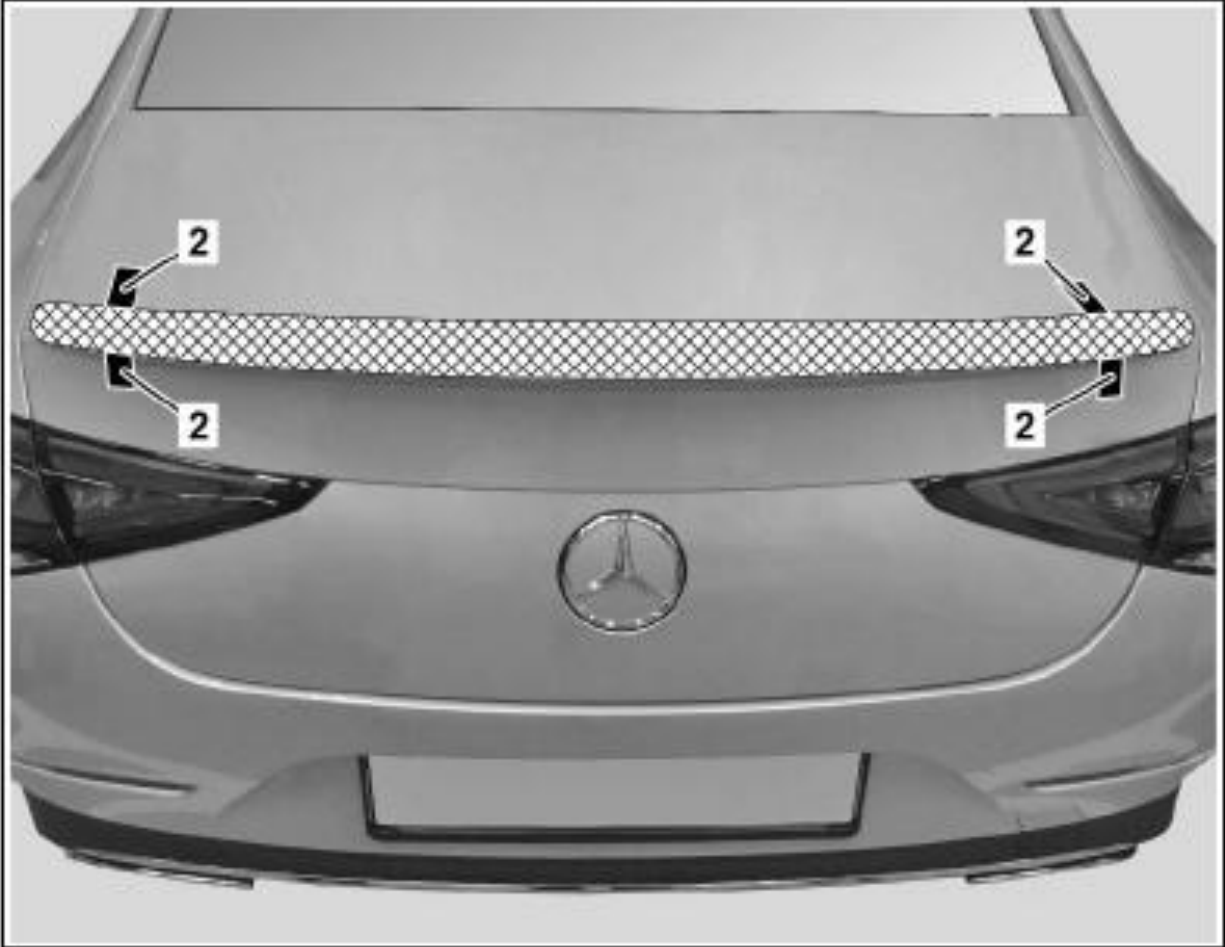
3. Remove rear spoiler and clean trunk lid in cross-hatched area.



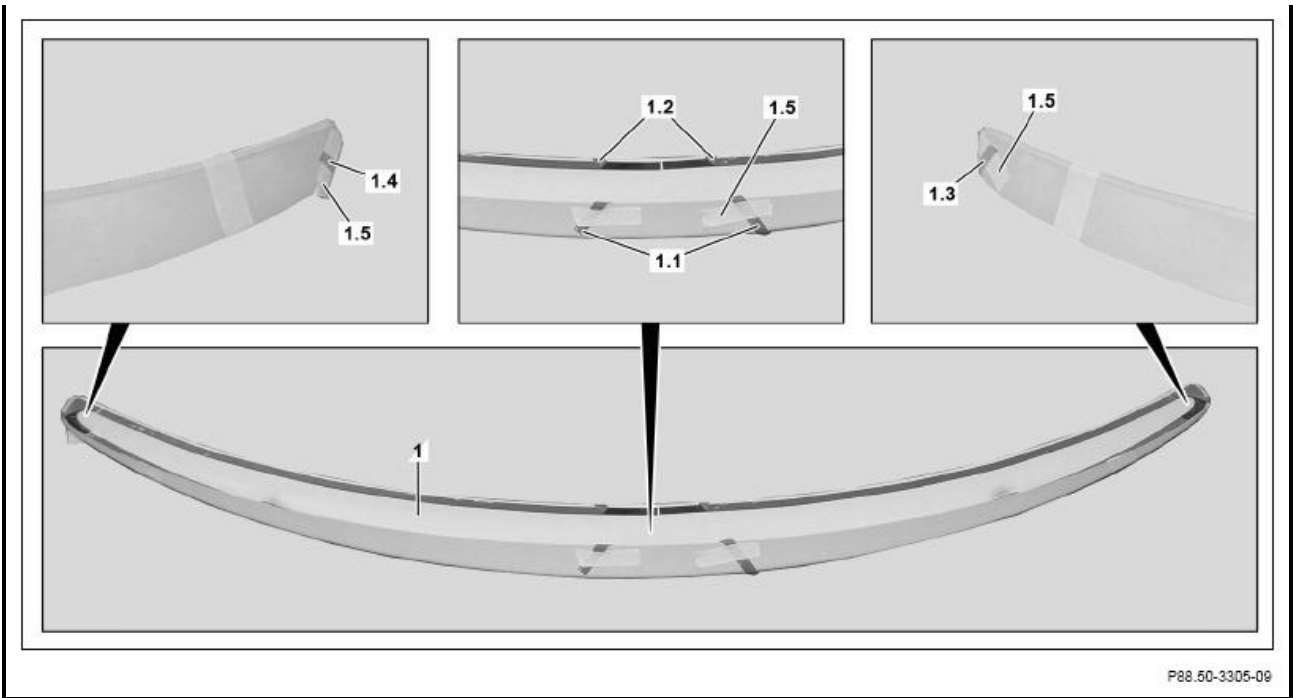
**i** Do not remove adhesive strips (2).

The area on the trunk lid to be glued must be free of dust and grease.

Observe manufacturers instructions.



P88.50-3300-11



4. Slightly detach protective foils (1.1, 1.2, 1.3 and 1.4) of adhesive strips from the rear spoiler (1) on the ends and bend them at a  $45^\circ$  angle toward the outer edge.
5. Fix angled protective foils (1.1, 1.2, 1.3 and 1.4) in place on the outside of the rear spoiler (1) with tape (1.5).
6. Install rear spoiler (1) on trunk lid and align in relation to previously attached adhesive tapes (2).
7. Fix rear spoiler (1) in place with adhesive tapes (3).
8. Remove protective foils (1.1) from inside toward outside in increments and firmly press on rear spoiler (1) gradually.



Permanently check whether rear spoiler (1) is correctly aligned while removing protective foils (1.1).

It is no longer possible to reposition after bonding.

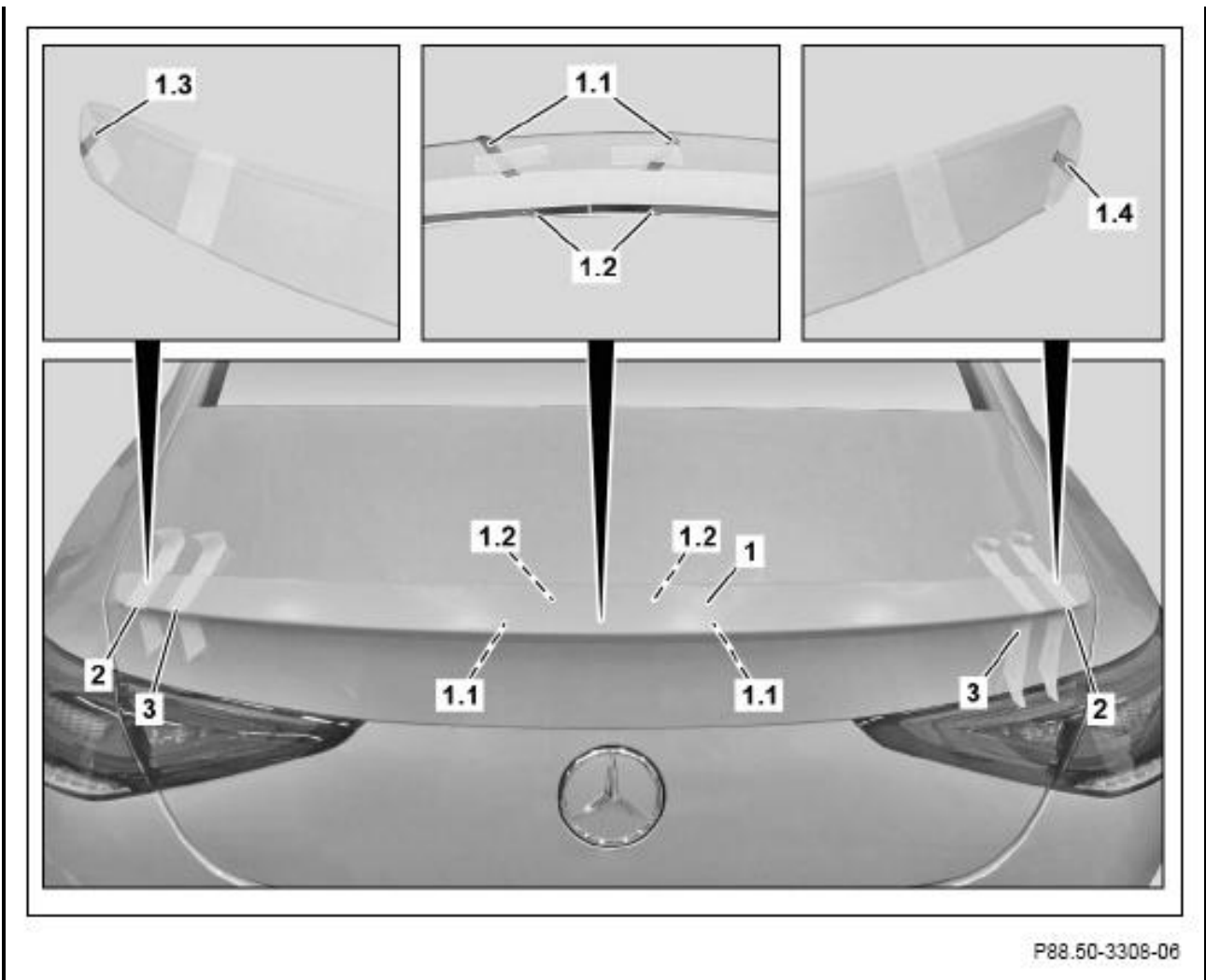


The distances between the rear spoiler (1) and the outer edges of the trunk lid must be uniform.

Align rear spoiler (1) according to shape of trunk lid as well as upper radius of edge of trunk lid. Align rear spoiler (1) according to trunk lid so that it runs uniformly over the entire length of the trunk lid.

9. Detach the protective foils (1.2) step by step and then remove protective foils (1.3 and 1.4) and press firmly on the rear spoiler (1).





When pressing on, ensure that the pressure is applied directly on the adhesive point. The maximum adhesive strength is only reached after approx. 72 h at 20°C.

Avoid any contact with moisture (e.g. rain, fog, frost, washing facility) or any mechanical stress within the first 24 h. Otherwise adhesion problems may occur.

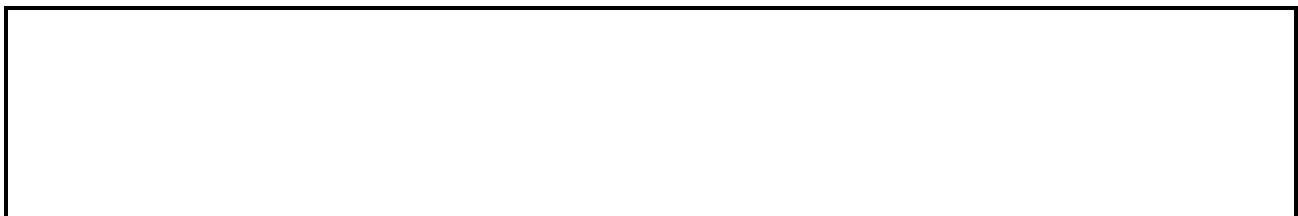


Then, press the rear spoiler (1) on the trunk lid with a clean cotton rag starting at the center.

10. Remove adhesive tapes (2 and 3).

### **RETROFIT REAR SPOILER ON TRUNK LID - AZ88.50-P-0005FR**

**Model 257.3 (except 257.361) except code 830 (China version)**



1 Rear spoiler



P88.50-3299-12

✘	Install	Â	Â
1	Paint rear spoiler (1).	<p><b>i</b> Use only paints approved by Daimler AG.</p>	<p><a href="#">AZ88.50-P-0005-01FR</a></p>
2 Â	<p>Attach rear spoiler (1) to trunk lid.</p> <p>Â</p>	<p>Â</p> <p><b>!</b> When pressing on, ensure that the pressure is applied directly on the adhesive point. The maximum adhesive strength is only reached after approx. 72 h at 20Â°C. Avoid any contact with moisture (e.g. rain, fog, frost, washing facility) or any mechanical stress within the first 24 h. Otherwise adhesion problems may occur.</p> <p><b>i</b> Do not remove protective foil all at once. Then, press the rear spoiler (1) on the trunk lid with a clean cotton rag starting at the center.</p> <p>Cleaner</p>	<p><a href="#">AZ88.50-P-0005-02FR</a></p> <p><a href="#">*BR00.45-Z-1025-04A</a></p>

Â	<b>Update Vehicle Documentation (VeDoc)</b>	Â	Â
3	Attach note "Rear spoiler retrofitted as per AZ88.50-P-0005FR" under field organization text for DG 88.	Â	Â

#### REPAIR MATERIALS

Number	Designation	Order number
BR00.45-Z-1025-04A	Cleaner	A 005 989 19 71

#### PARTS ORDERING NOTE

Part no.	Designation	Quantity
KG98 (see EPC)	Rear spoiler parts kit	1

#### ☰ TORQUE SPECIFICATIONS

#### **TIGHTENING TORQUES: PASSENGER CARS: DETACHABLE BODY COMPONENTS, EXTERIOR FLAPS - BA88.00-Z-9999AZ**

#### MODEL all

Â	Fenders	MODEL 163	BA88.10-P-1000-01A
Â	Fenders	Model 171, 210, 211, 220, 230, 231, 232, 240	BA88.10-P-1000-01B
Â	Fenders	MODEL 117, 169, 242, 245, 246	BA88.10-P-1000-01C
Â	Fenders	Model 167, 216, 219, 221	BA88.10-P-1000-01D
Â	Fenders	Model 164.1/8, 166, 292	BA88.10-P-1000-01E
Â	Fenders	MODEL 251	BA88.10-P-1000-01F
Â	Fenders	MODEL 204, 207, 212, 218	BA88.10-P-1000-01G
Â	Fenders	MODEL 190, 197	BA88.10-P-1000-01H
Â	Fenders	MODEL 217	BA88.10-P-1000-01I
Â	Bumper	Model 167, 168, 170, 202, 203, 208.3/4, 209, 210, 215, 220, 230	BA88.20-P-1000-01A
Â	Bumper	MODEL 163	BA88.20-P-1000-01B
Â	Bumper	MODEL 169, 245	BA88.20-P-1000-01C
Â	Bumper	MODEL 219, 221	BA88.20-P-1000-01D

Â	Bumper	Model 164.1/8, 166, 292	BA88.20-P-1000-01E
Â	Bumper	MODEL 251	BA88.20-P-1000-01F
Â	Bumper	MODEL 190, 197	BA88.20-P-1000-01H
Â	Detachable body components, underride guard	MODEL 163 as of 9/1/01 MODEL 163 up to 8/31/01	BA88.30-P-1000-01A
Â	Detachable body components, underride guard	Model 213	BA88.30-P-1000-01B
Â	Detachable body components, underride guard	MODEL 164.1/8	BA88.30-P-1000-01D
Â	Detachable body components, underride guard	MODEL 242 with ENGINE 780	BA88.30-P-1000-01E
Â	Running board	Model 167 with code M036 (Maybach version)	BA88.30-P-1000-03B
Â	Engine hood	MODEL 170, 171, 172, 202, 203, 208.3/4, 209, 210, 211	BA88.40-P-1000-01A
Â	Engine hood	MODEL 168, 414.700	BA88.40-P-1000-01B
Â	Engine hood	MODEL 163	BA88.40-P-1000-01C
Â	Engine hood	Model 199, 215, 220, 230, 461, 463	BA88.40-P-1000-01D
Â	Engine hood	MODEL 240.078/079/178	BA88.40-P-1000-01E
Â	Engine hood	Model 118, 177, 243, 247	BA88.40-P-1000-01F
Â	Engine hood	Model 117, 156, 169, 176, 242, 245, 246	BA88.40-P-1000-01I
Â	Engine hood	MODEL 219	BA88.40-P-1000-01J
Â	Engine hood	Model 164.1/8, 166, 167, 292	BA88.40-P-1000-01K
Â	Engine hood	MODEL 251	BA88.40-P-1000-01L
Â	Engine hood	MODEL 216, 221	BA88.40-P-1000-01M
Â	Engine hood	Model 204, 205, 206, 207, 212, 213, 217, 218, 222, 223, 231, 232, 238, 253, 257, 290, 293, 297	<b>BA88.40-P-1000-01N</b>
Â	Engine hood	MODEL 190, 197	BA88.40-P-1000-01O
Â	Trunk lid	MODEL 170, 171, 172, 199, 202, 203, 208.3/4, 209, 210, 211, 215, 220, 230, 231	BA88.50-P-1000-01A
Â	Trunk lid	MODEL 240	BA88.50-P-1000-01B
Â	Trunk lid	MODEL 216, 219, 221	BA88.50-P-1000-01D

Â	Trunk lid	Model 204, 207, 212, 217, 218.3, 222, 223	BA88.50-P-1000-01E
Â	Trunk lid	MODEL 197	BA88.50-P-1000-01F
Â	Trunk lid	Model 232	BA88.50-P-1000-01G
Â	Trunk lid	Model 205, 206, 213, 238, 257	<b>BA88.50-P-1000-03A</b>
Â	Trunk lid	Model 190.4	BA88.50-P-1000-03B
Â	Trunk lid	Model 118, 177	BA88.50-P-1000-03C
Â	Outside flaps	MODEL 207.4, 208.4, 209.4	BA88.60-P-1000-01A
Â	Outside flaps	MODEL 169, 245	BA88.60-P-1000-01B
Â	Outside flaps	MODEL 219.3	BA88.60-P-1000-01C
Â	Exterior rearview mirrors	MODEL 171, 172, 211, 230	BA88.70-P-1000-01A
Â	Exterior rearview mirrors	MODEL 216, 219, 221	BA88.70-P-1000-01B
Â	Exterior rearview mirrors	MODEL 209	BA88.70-P-1000-01E
Â	Exterior rearview mirrors	MODEL 190, 197	BA88.70-P-1000-01F
Â	Cover strips	MODEL 219	BA88.80-P-1000-01A

### **ENGINE HOOD - BA88.40-P-1000-01N**

**Model 204, 205, 206, 207, 212, 213, 217, 218, 222, 223, 231, 232, 238, 253, 254, 257, 290, 293, 295, 296, 297**

#### **ENGINE HOOD**

<b>Number</b>	<b>Designation</b>	<b>Model 204</b>	<b>Model 205</b>
BA88.40-P-1001-01N	Attachment, hinge to body	Nm 25	10
BA88.40-P-1002-01N	Attachment, hinge to engine hood	Nm 12	10
BA88.40-P-1003-01N	Bolt/nut, engine hood catch upper part to engine hood	Nm 10	10
BA88.40-P-1005-01N	Bolt/nut, safety hook to engine hood	Nm 10	10
BA88.40-P-1006-01N	Attachment, lock striker for safety hook	Nm 10	10
BA88.40-P-1008-01N	Attachment, hinge upper part to hinge lower part	Nm 34	23
BA88.40-P-1009-01N	Nut, upper lateral support to hood	Nm -	-
BA88.40-P-1010-01N	Guide pin, lower lateral support to upper lateral support	Nm -	-
BA88.40-P-1011-01N	Screw, lower lateral support to body	Nm -	-

#### **ENGINE HOOD**

<b>Number</b>	<b>Designation</b>	<b>Model 206</b>	<b>Model 207</b>

BA88.40-P-1001-01N	Attachment, hinge to body	Nm	11	25
BA88.40-P-1002-01N	Attachment, hinge to engine hood	Nm	11	10
BA88.40-P-1003-01N	Bolt/nut, engine hood catch upper part to engine hood	Nm	10	10
BA88.40-P-1005-01N	Bolt/nut, safety hook to engine hood	Nm	10	10
BA88.40-P-1006-01N	Attachment, lock striker for safety hook	Nm	11	10
BA88.40-P-1008-01N	Attachment, hinge upper part to hinge lower part	Nm	23	34
BA88.40-P-1009-01N	Nut, upper lateral support to hood	Nm	-	-
BA88.40-P-1010-01N	Guide pin, lower lateral support to upper lateral support	Nm	-	-
BA88.40-P-1011-01N	Screw, lower lateral support to body	Nm	-	-

#### ENGINE HOOD

Number	Designation		Model 212	Model 213
BA88.40-P-1001-01N	Attachment, hinge to body	Nm	25	10
BA88.40-P-1002-01N	Attachment, hinge to engine hood	Nm	10	10
BA88.40-P-1003-01N	Bolt/nut, engine hood catch upper part to engine hood	Nm	10	10
BA88.40-P-1005-01N	Bolt/nut, safety hook to engine hood	Nm	10	10
BA88.40-P-1006-01N	Attachment, lock striker for safety hook	Nm	10	10
BA88.40-P-1008-01N	Attachment, hinge upper part to hinge lower part	Nm	34	23
BA88.40-P-1009-01N	Nut, upper lateral support to hood	Nm	-	-
BA88.40-P-1010-01N	Guide pin, lower lateral support to upper lateral support	Nm	-	-
BA88.40-P-1011-01N	Screw, lower lateral support to body	Nm	-	-

#### ENGINE HOOD

Number	Designation		Model 217	Model 218
BA88.40-P-1001-01N	Attachment, hinge to body	Nm	12	25
BA88.40-P-1002-01N	Attachment, hinge to engine hood	Nm	12	10
BA88.40-P-1003-01N	Bolt/nut, engine hood catch upper part to engine hood	Nm	10	10
BA88.40-P-1005-01N	Bolt/nut, safety hook to engine hood	Nm	10	10
BA88.40-P-1006-01N	Attachment, lock striker for safety hook	Nm	10	10
BA88.40-P-1008-01N	Attachment, hinge upper part to hinge lower part	Nm	34	34
BA88.40-P-1009-01N	Nut, upper lateral support to hood	Nm	-	-
BA88.40-P-1010-01N	Guide pin, lower lateral support to upper lateral support	Nm	-	-
BA88.40-P-1011-01N	Screw, lower lateral support to body	Nm	-	-

#### ENGINE HOOD

Number	Designation		Model 222	Model 223
BA88.40-P-1001-01N	Attachment, hinge to body	Nm	12	11
BA88.40-P-1002-01N	Attachment, hinge to engine hood	Nm	12	11
BA88.40-P-1003-01N	Bolt/nut, engine hood catch upper part to engine hood	Nm	10	11
BA88.40-P-1005-01N	Bolt/nut, safety hook to engine hood	Nm	10	-
BA88.40-P-1006-01N	Attachment, lock striker for safety hook	Nm	10	-
BA88.40-P-1008-01N	Attachment, hinge upper part to hinge lower part	Nm	34	23
BA88.40-P-1009-01N	Nut, upper lateral support to hood	Nm	-	-
BA88.40-P-1010-01N	Guide pin, lower lateral support to upper lateral support	Nm	-	-
BA88.40-P-1011-01N	Screw, lower lateral support to body	Nm	-	-



**ENGINE HOOD**

Number	Designation		Model 231	Model 232
BA88.40-P-1001-01N	Attachment, hinge to body	Nm	14	10
BA88.40-P-1002-01N	Attachment, hinge to engine hood	Nm	10	10
BA88.40-P-1003-01N	Bolt/nut, engine hood catch upper part to engine hood	Nm	10	10
BA88.40-P-1005-01N	Bolt/nut, safety hook to engine hood	Nm	10	-
BA88.40-P-1006-01N	Attachment, lock striker for safety hook	Nm	10	10
BA88.40-P-1008-01N	Attachment, hinge upper part to hinge lower part	Nm	25	-
BA88.40-P-1009-01N	Nut, upper lateral support to hood	Nm	-	-
BA88.40-P-1010-01N	Guide pin, lower lateral support to upper lateral support	Nm	-	-
BA88.40-P-1011-01N	Screw, lower lateral support to body	Nm	-	-

**ENGINE HOOD**

Number	Designation		Model 238	Model 253
BA88.40-P-1001-01N	Attachment, hinge to body	Nm	10	10
BA88.40-P-1002-01N	Attachment, hinge to engine hood	Nm	10	10
BA88.40-P-1003-01N	Bolt/nut, engine hood catch upper part to engine hood	Nm	10	10
BA88.40-P-1005-01N	Bolt/nut, safety hook to engine hood	Nm	10	10
BA88.40-P-1006-01N	Attachment, lock striker for safety hook	Nm	10	10
BA88.40-P-1008-01N	Attachment, hinge upper part to hinge lower part	Nm	23	23
BA88.40-P-1009-01N	Nut, upper lateral support to hood	Nm	-	-
BA88.40-P-1010-01N	Guide pin, lower lateral support to upper lateral support	Nm	-	-
BA88.40-P-1011-01N	Screw, lower lateral support to body	Nm	-	-

**ENGINE HOOD**

Number	Designation		Model 254	Model 257
BA88.40-P-1001-01N	Attachment, hinge to body	Nm	11	10
BA88.40-P-1002-01N	Attachment, hinge to engine hood	Nm	11	10
BA88.40-P-1003-01N	Bolt/nut, engine hood catch upper part to engine hood	Nm	10	10
BA88.40-P-1005-01N	Bolt/nut, safety hook to engine hood	Nm	10	10
BA88.40-P-1006-01N	Attachment, lock striker for safety hook	Nm	11	10
BA88.40-P-1008-01N	Attachment, hinge upper part to hinge lower part	Nm	23	23
BA88.40-P-1009-01N	Nut, upper lateral support to hood	Nm	-	-
BA88.40-P-1010-01N	Guide pin, lower lateral support to upper lateral support	Nm	-	-
BA88.40-P-1011-01N	Screw, lower lateral support to body	Nm	-	-

**ENGINE HOOD**

Number	Designation		Model 290	Model 293
BA88.40-P-1001-01N	Attachment, hinge to body	Nm	10	10
BA88.40-P-1002-01N	Attachment, hinge to engine hood	Nm	10	10
BA88.40-P-1003-01N	Bolt/nut, engine hood catch upper part to engine hood	Nm	10	10
BA88.40-P-1005-01N	Bolt/nut, safety hook to engine hood	Nm	10	10
BA88.40-P-1006-01N	Attachment, lock striker for safety hook	Nm	10	10
BA88.40-P-1008-01N	Attachment, hinge upper part to hinge lower part	Nm	23	23

BA88.40-P-1009-01N	Nut, upper lateral support to hood	Nm	-	-
BA88.40-P-1010-01N	Guide pin, lower lateral support to upper lateral support	Nm	-	-
BA88.40-P-1011-01N	Screw, lower lateral support to body	Nm	-	-

#### ENGINE HOOD

Number	Designation		Model 295	Model 296
BA88.40-P-1001-01N	Attachment, hinge to body	Nm	11	11
BA88.40-P-1002-01N	Attachment, hinge to engine hood	Nm	11	11
BA88.40-P-1003-01N	Bolt/nut, engine hood catch upper part to engine hood	Nm	10	10
BA88.40-P-1005-01N	Bolt/nut, safety hook to engine hood	Nm	-	-
BA88.40-P-1006-01N	Attachment, lock striker for safety hook	Nm	-	-
BA88.40-P-1008-01N	Attachment, hinge upper part to hinge lower part	Nm	-	-
BA88.40-P-1009-01N	Nut, upper lateral support to hood	Nm	10	-
BA88.40-P-1010-01N	Guide pin, lower lateral support to upper lateral support	Nm	8	-
BA88.40-P-1011-01N	Screw, lower lateral support to body	Nm	10	-

#### ENGINE HOOD

Number	Designation		Model 297
BA88.40-P-1001-01N	Attachment, hinge to body	Nm	11
BA88.40-P-1002-01N	Attachment, hinge to engine hood	Nm	11
BA88.40-P-1003-01N	Bolt/nut, engine hood catch upper part to engine hood	Nm	10
BA88.40-P-1005-01N	Bolt/nut, safety hook to engine hood	Nm	-
BA88.40-P-1006-01N	Attachment, lock striker for safety hook	Nm	-
BA88.40-P-1008-01N	Attachment, hinge upper part to hinge lower part	Nm	-
BA88.40-P-1009-01N	Nut, upper lateral support to hood	Nm	10
BA88.40-P-1010-01N	Guide pin, lower lateral support to upper lateral support	Nm	8
BA88.40-P-1011-01N	Screw, lower lateral support to body	Nm	10

#### TRUNK LID - BA88.50-P-1000-03A

Model 205, 206, 213, 238, 257

#### TRUNK LID

Number	Designation		Model 205	Model 206
BA88.50-P-1001-03A	Bolt, hinge bracket to trunk lid	Nm	12	10
BA88.50-P-1002-03A	Bolt/nut, hinge bracket to mounting console	Nm	20	23
BA88.50-P-1003-03A	Bolt, mounting console to body	Nm	10	10
BA88.50-P-1004-03A	Bolt, trunk lid lock to trunk lid	Nm	9	9

#### TRUNK LID

Number	Designation		Model 213	Model 238
BA88.50-P-1001-03A	Bolt, hinge bracket to trunk lid	Nm	10	10
BA88.50-P-1002-03A	Bolt/nut, hinge bracket to mounting console	Nm	20	20
BA88.50-P-1003-03A	Bolt, mounting console to body	Nm	10	10
BA88.50-P-1004-03A	Bolt, trunk lid lock to trunk lid	Nm	9	9

## TRUNK LID

Number	Designation		Model 257
BA88.50-P-1001-03A	Bolt, hinge bracket to trunk lid	Nm	10
BA88.50-P-1002-03A	Bolt/nut, hinge bracket to mounting console	Nm	23
BA88.50-P-1003-03A	Bolt, mounting console to body	Nm	10
BA88.50-P-1004-03A	Bolt, trunk lid lock to trunk lid	Nm	9

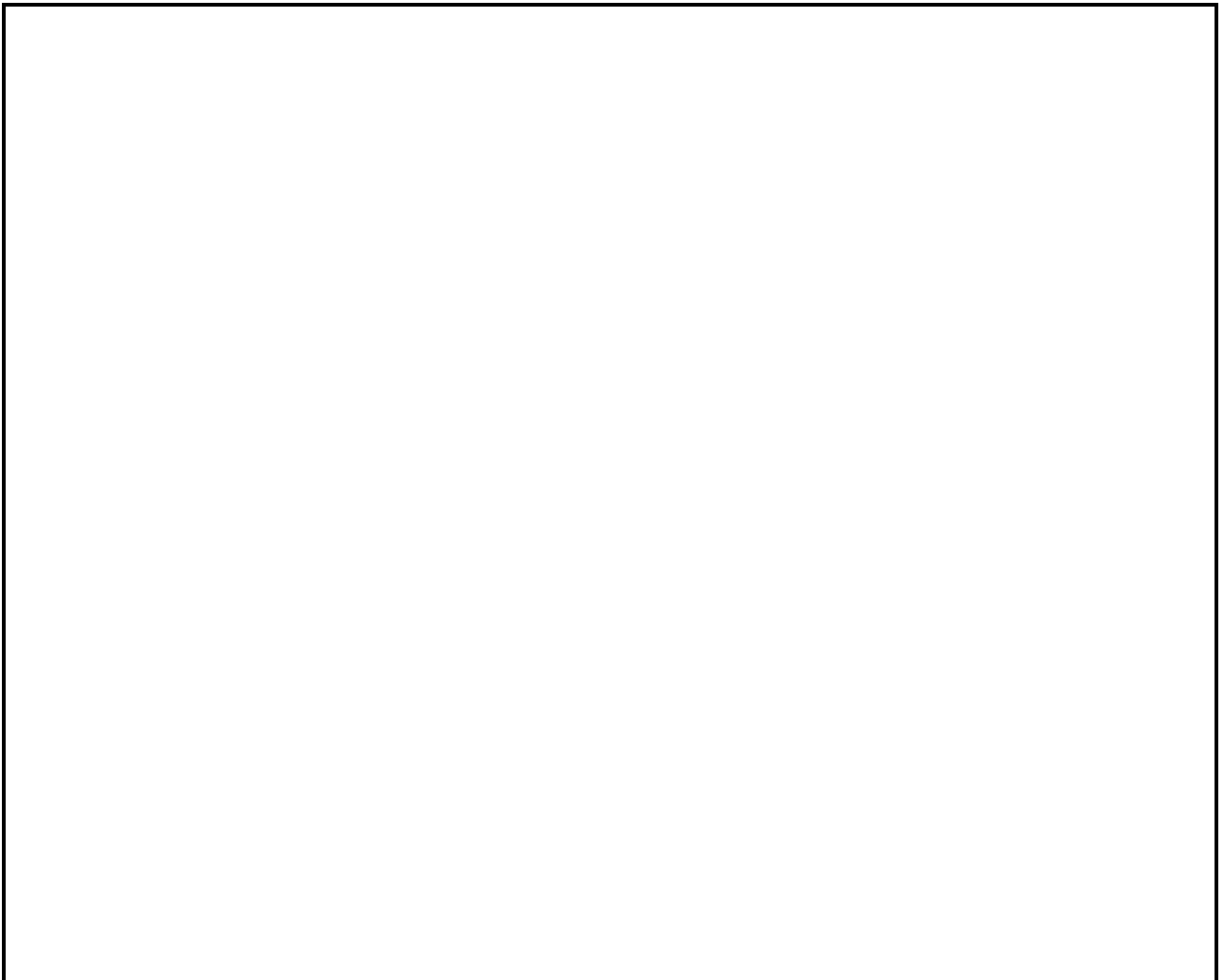
## ☞ MISCELLANEOUS NOTES

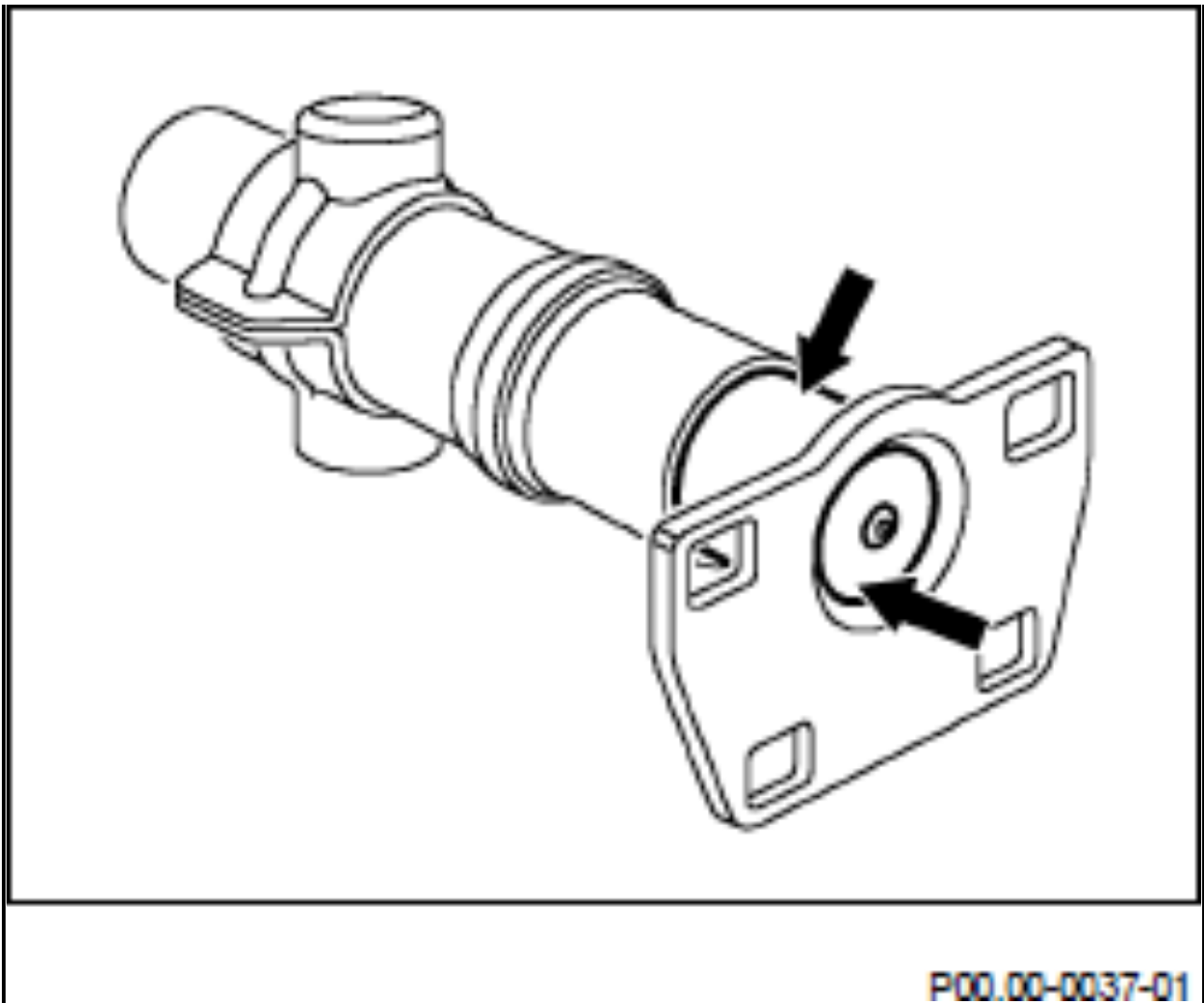
### SCRAPPING SHOCK ABSORBER IMPACT DAMPERS - OS88.20-P-1000-01A

#### Code 491 USA version

#### Code 494 California version

1. To relieve the gas pressure drill a 5 mm hole on the flange side of the impact damper approx. 5 mm to the side of the filler rivet (arrow).
2. Push rubber boot and clamping ring down towards the flange and cut open rubber boot.
3. If necessary drill a second 5 mm hole in the impact damper tube approx. 30 mm below the flange (arrow) and force out the oil by compressing and extending the impact damper several times.





## WIRING DIAGRAMS

### ELECTRICAL FUNCTION SCHEMATIC FOR TRUNK LID CONTROL

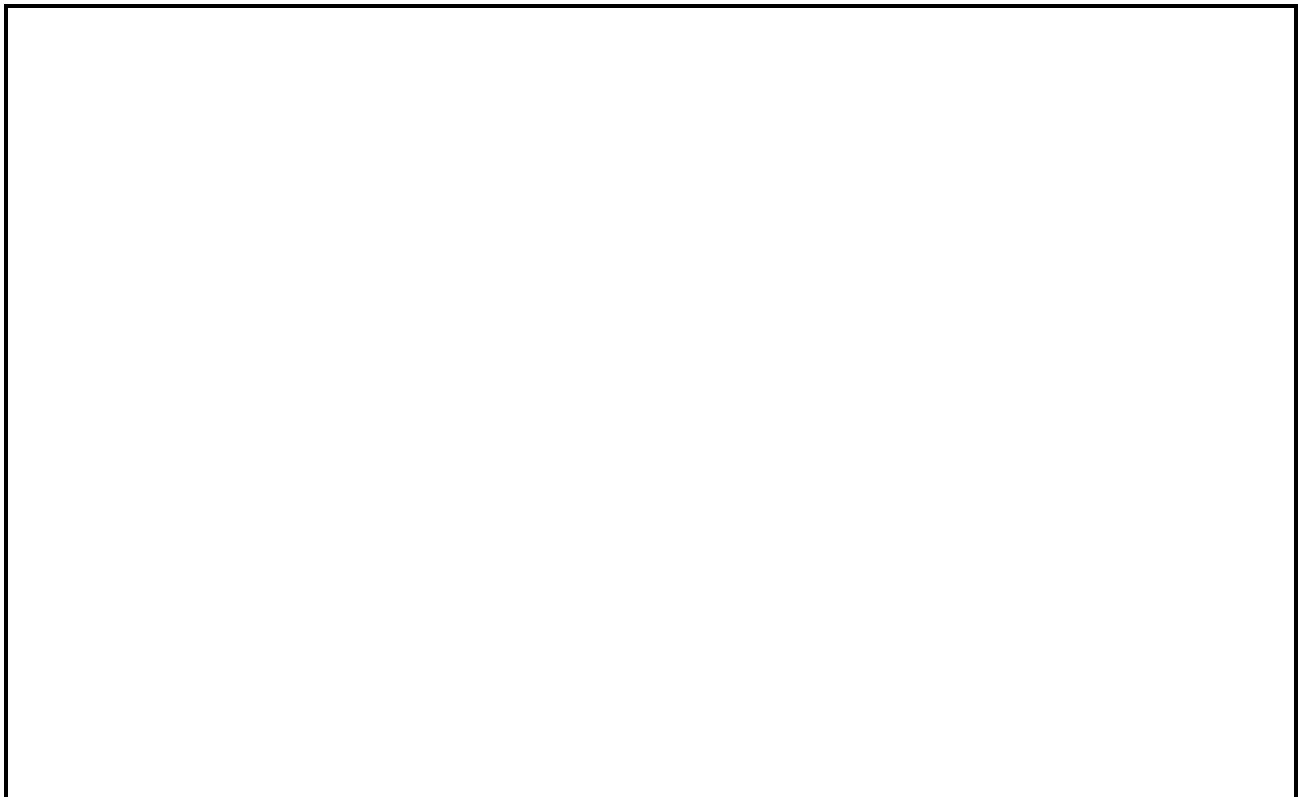
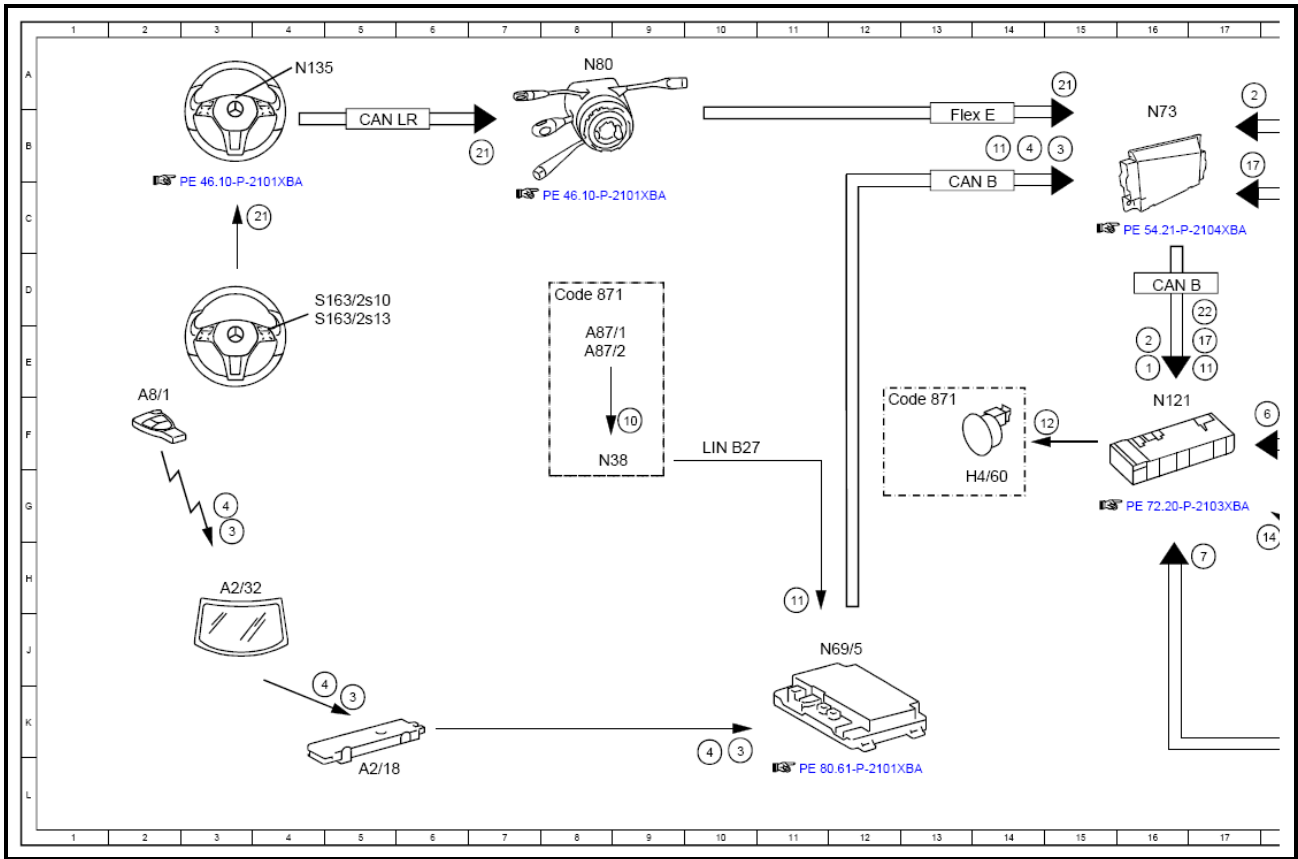
Electrical Function Schematic For Trunk Lid Control - PE88.50-P-2051-97XBA

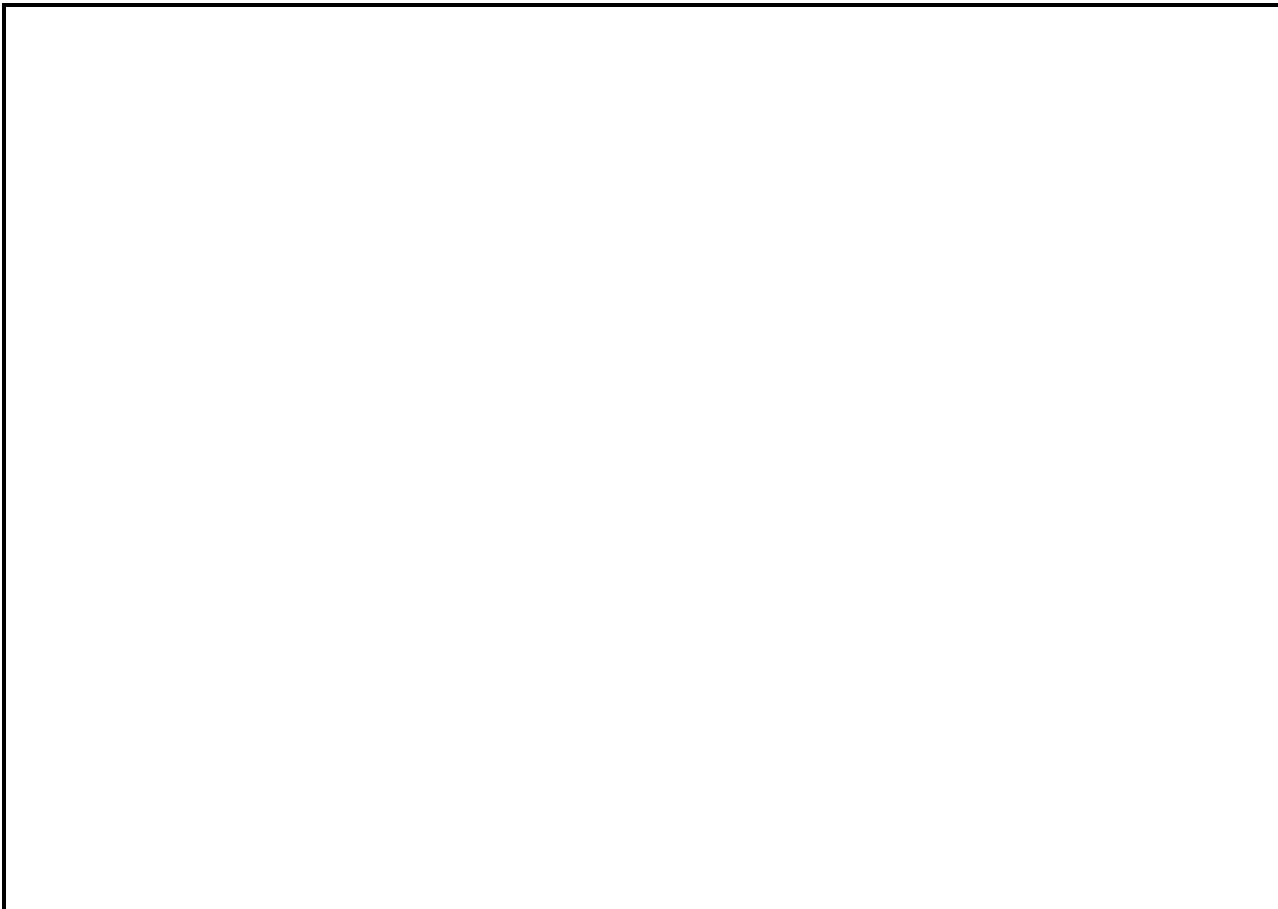
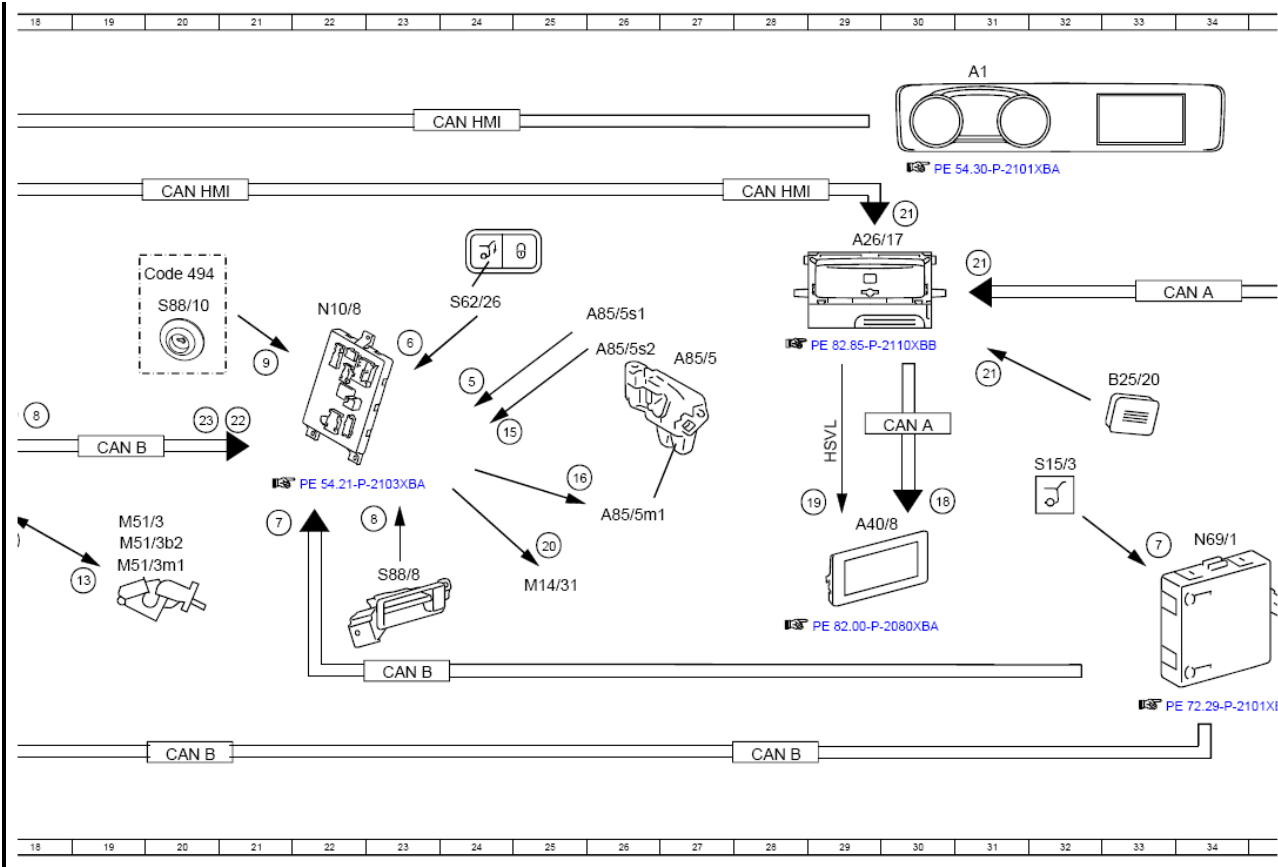
Model 257 up to model year 2021 with code 881 (Remote boot-lid closing)

Code:	Designation:	Position:
1	Circuit 15, status	16E
10	Rear switching module sensor, signal	9F
11	Open trunk lid/liftgate, request	11H
11	Open trunk lid/liftgate, request	17E
11	Open trunk lid/liftgate, request	14B
12	Warning buzzer, actuation	14F
13	Trunk lid/liftgate control drive unit, actuation	19H
14	Hall sensor, signal	18H
15	Trunk lid/liftgate lock safety catch switch, status	24E
16	Trunk lid/liftgate lock motor, actuation	25G

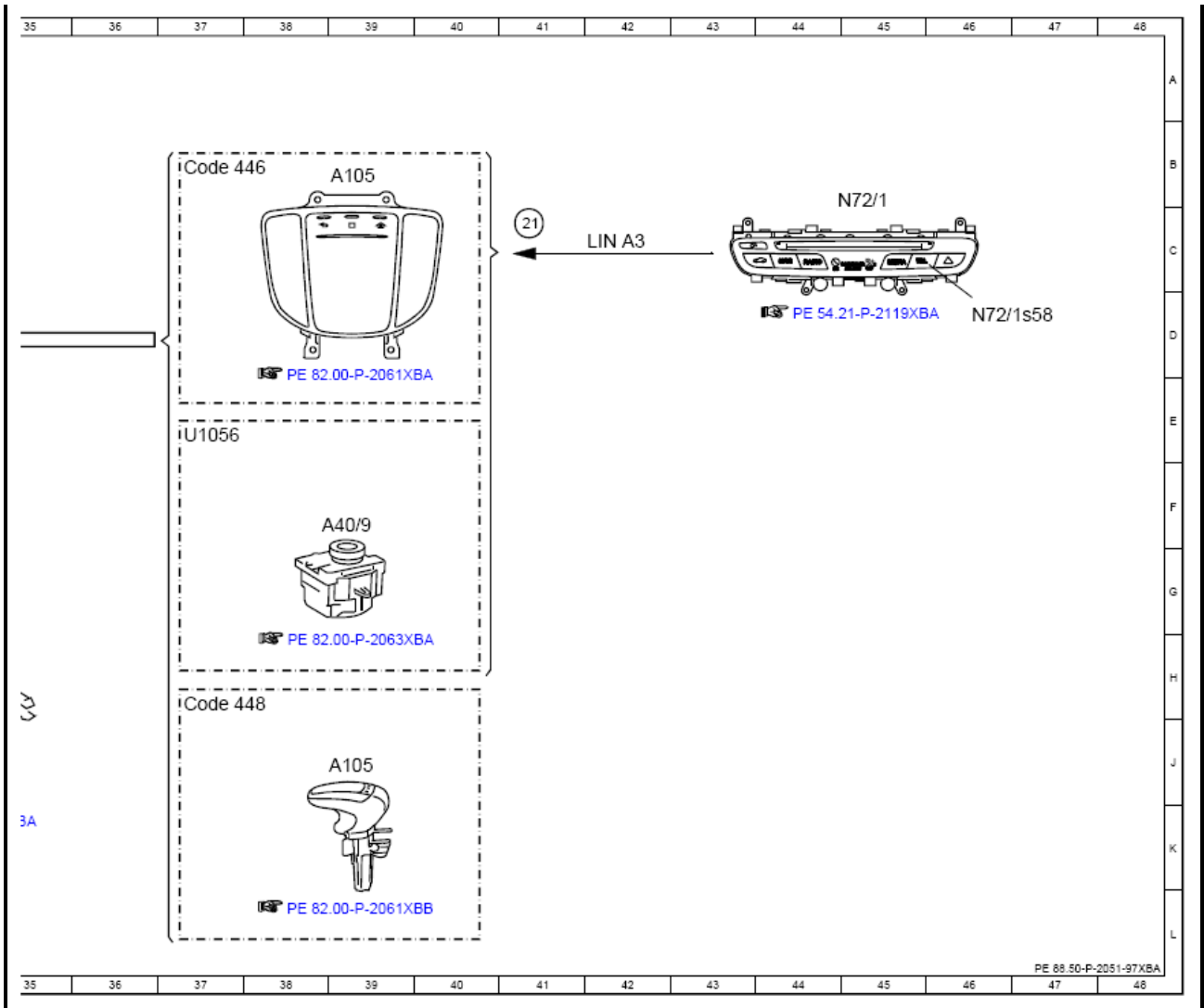
17	Opening angle limiter, request	17E
17	Opening angle limiter, request	17B
18	Audio/COMAND display, actuation	30G
19	High-speed video link video signal data transfer, signal	29G
2	Vehicle speed, signal	16E
2	Vehicle speed, signal	17A
20	Trunk lid/liftgate lock element, actuation	25H
21	Operation, signal	4C
21	Operation, signal	7B
21	Operation, signal	30C
21	Operation, signal	31D
21	Operation, signal	31E
21	Operation, signal	15A
21	Operation, signal	41C
22	Close trunk lid/liftgate, request	21F
22	Close trunk lid/liftgate, request	17D
23	Trunk lid status	20F
3	Transmitter key, signal	10K
3	Transmitter key, signal	3G
3	Transmitter key, signal	5K
3	Transmitter key, signal	15B
4	Access authorization code, signal	10K
4	Access authorization code, signal	3G
4	Access authorization code, signal	4K
4	Access authorization code, signal	14B
5	Trunk lid/liftgate lock main catch switch, status	24E
6	Trunk lid/liftgate control button, status	18F
6	Trunk lid/liftgate control button, status	23E
7	Driver-side trunk lid/liftgate control button, status	33H
7	Driver-side trunk lid/liftgate control button, status	17H
7	Driver-side trunk lid/liftgate control button, status	21G
8	Trunk lid/liftgate external operation switch, status	18F
8	Trunk lid/liftgate external operation switch, status	23G
9	Trunk lid emergency opening switch, status	21E
A1	Instrument cluster	31A
A105	Touchpad	39J
A105	Touchpad	39B
A2/18	FM, AM, CL, DAB and KEYLESS-GO antenna amplifier	5L
A2/32	Rear window antenna	3H
A26/17	Head unit	29C
A40/8	Audio/COMAND display	29G
A40/9	Audio/COMAND control panel	39F
A8/1	Transmitter key	2F
A85/5	Trunk lid/liftgate lock	27E
A85/5m1	Trunk lid/liftgate lock motor	26G

A85/5s1	Trunk lid/liftgate lock main catch switch	25D
A85/5s2	Trunk lid/liftgate lock safety catch switch	26E
A87/1	Rear switching module upper sensor	8E
A87/2	Rear switching module lower sensor	8E
B25/20	Driver hands-free system microphone	33E
CAN A	Telematics CAN	30F
CAN A	Telematics CAN	34D
CAN B	Interior CAN	16D
CAN B	Interior CAN	19F
CAN B	Interior CAN	23J
CAN B	Interior CAN	20K
CAN B	Interior CAN	28K
CAN B	Interior CAN	13C
CAN HMI	User interface CAN	20C
CAN HM1	User interface CAN	28C
CAN MMI	User interface CAN	24B
CAN LR	Steering wheel CAN	5B
Code 446	Touchpad only	37B
Code 448	Touchpad	37H
Code 494	USA version	19D
Code 871	HANDS-FREE ACCESS	8D
Code 871	HANDS-FREE ACCESS	12F
Flex E	Chassis FlexRay	13B
H4/60	Trunk lid/liftgate control warning buzzer	14G
HSV L	High-speed video link	29F
LIN A3	LCP LIN	42C
LIN B27	KEYLESS-GO LIN	10F
M14/31	Trunk lid/liftgate locking element	25H
M51/3	Trunk lid/liftgate control drive unit	19G
M51/3b2	Trunk lid control position sensor	19H
M51/3m1	Trunk lid/liftgate control electric motor	19H
N10/8	Rear SAM control unit	22D
N121	Trunk lid control control unit	16F
N135	Steering wheel electronics	4A
N38	Rear switching module	8F
N69/1	Left front door control unit	34G
N69/5	KEYLESS-GO control unit	11J
N72/1	Upper control panel control unit	44B
N72/1s58	Vehicle button	46D
N73	Electronic ignition switch control unit	16B
N80	Steering column module control unit	8A
S15/3	Driver trunk lid/liftgate control button	32F
S163/2s10	Head unit finger navigation pad	5D
S163/2s13	Back button	5D
S62/26	Trunk lid/liftgate control button	24D
S88/10	Trunk lid emergency opening switch	20D









**Electrical Function Schematic For Trunk Lid Control - PE88.50-P-2051XBA**

**Model 257 up to model year 2021 with code 881 (Remote boot-lid closing)**

Â	Electrical function schematic for trunk lid control	Â	<a href="#">PE88.50-P-2051-97XBA</a>
Â	Use of electrical function schematics	Â	<a href="#">OV00.01-P-1901-09A</a>

**ELECTRICAL FUNCTION SCHEMATIC FOR MIRROR LENS ADJUSTMENT**

**Electrical Function Schematic For Mirror Lens Adjustment - PE88.79-P-2051-97XBA**

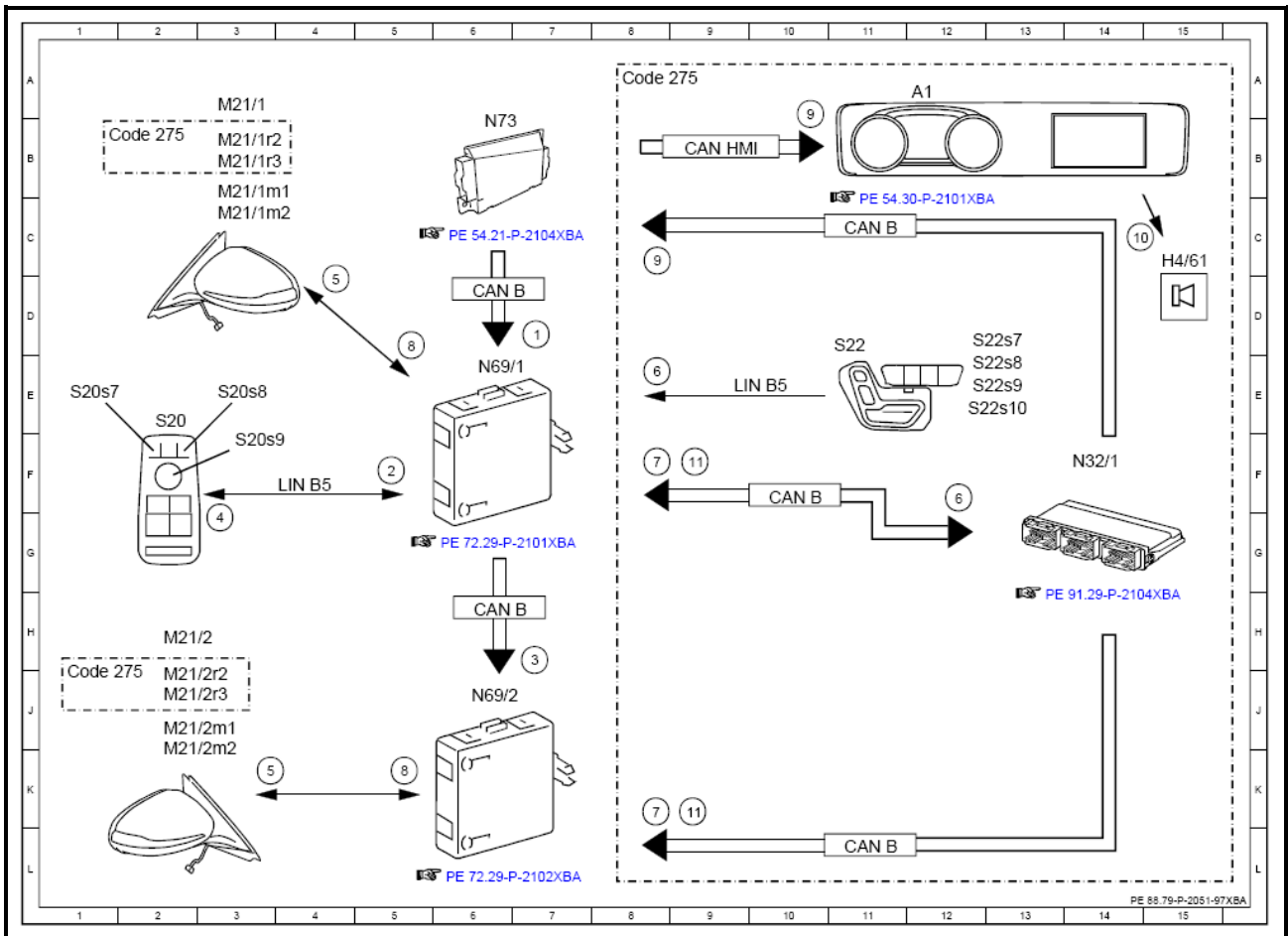
**Model 257, 290 up to model year 2021**

<b>Code:</b>	<b>Designation:</b>	<b>Position:</b>
1	Circuit 15, status	7D
10	Speaker, actuation	14C
11	Adopt memory position, request	9F
11	Adopt memory position, request	9K
2	Driver-side switch group, status	5F

3	Outside mirror actuator motor, request	7H
4	Visual feedback, request	3G
5	Outside mirror actuator motor, actuation	3K
5	Outside mirror actuator motor, actuation	4D
6	Seat adjustment switch group, status	12F
6	Seat adjustment switch group, status	8E
7	Store memory position, request	8F
7	Store memory position, request	8K
8	Potentiometer, signal	5K
8	Potentiometer, signal	5D
9	Acknowledgement tone after memory positions stored successfully, request	10B
9	Acknowledgement tone after memory positions stored successfully, request	8C
A1	Instrument cluster	12A
CAN B	Interior CAN	10F
CAN B	Interior CAN	6H
CAN B	Interior CAN	6D
CAN B	Interior CAN	11L
CAN B	Interior CAN	11C
CAN HMI	User interface CAN	9B
Code 275	Memory package	1B
Code 275	Memory package	8A
Code 275	Memory package	1J
H4/61	Instrument cluster speaker	15C
LIN B5	Left front door LIN	4F
LIN B5	Left front door LIN	9E
M21/1	Left outside mirror	3A
M21/1m1	Vertical inclination adjustment actuator motor	3C
M21/1m2	Horizontal inclination adjustment actuator motor	3C
M21/1r2	Vertical inclination adjustment potentiometer	3B
M21/1r3	Horizontal inclination adjustment potentiometer	3B
M21/2	Right outside mirror	2H
M21/2m1	Vertical inclination adjustment actuator motor	2J
M21/2m2	Horizontal inclination adjustment actuator motor	2K
M21/2r2	Vertical inclination adjustment potentiometer	2J
M21/2r3	Horizontal inclination adjustment	2J

potentiometer

N32/1	Driver seat control unit	14F
N69/1	Left front door control unit	6E
N69/2	Right front door control unit	6J
N73	Electronic ignition switch control unit	6B
S20	Driver-side power window and outside mirror adjustment switch group	2E
S20s7	Left outside mirror adjustment switch	1E
S20s8	Right outside mirror adjustment switch	3E
S20s9	Outside mirror adjustment switch	3F
S22	Left front seat adjustment switch group	11D
S22s10	Left front memory 3 switch	12E
S22s7	Left front memory function switch	13D
S22s8	Left front memory 1 switch	13E
S22s9	Left front memory 2 switch	13E



Electrical Function Schematic For Mirror Lens Adjustment - PE88.79-P-2051XBA

**Model 257, 290 up to model year 2021**

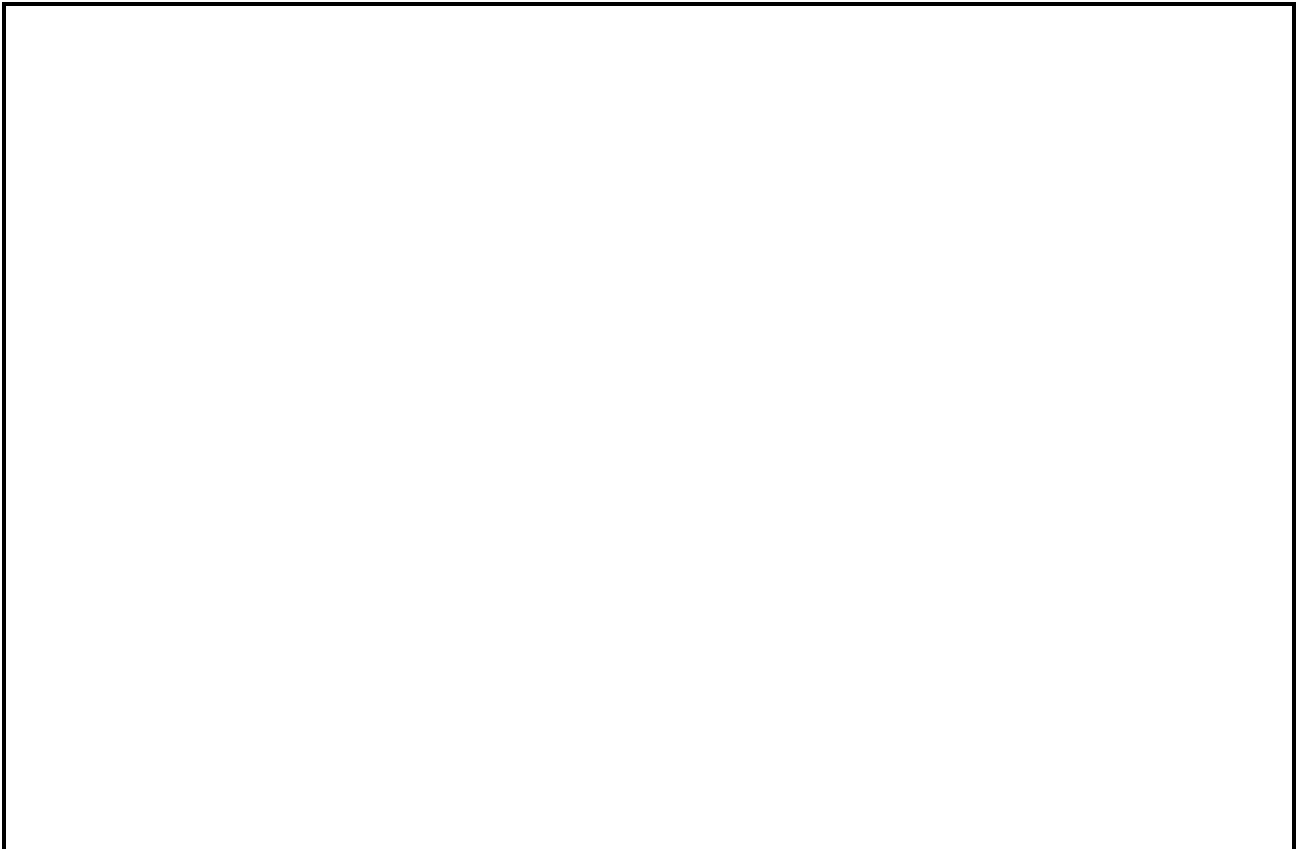
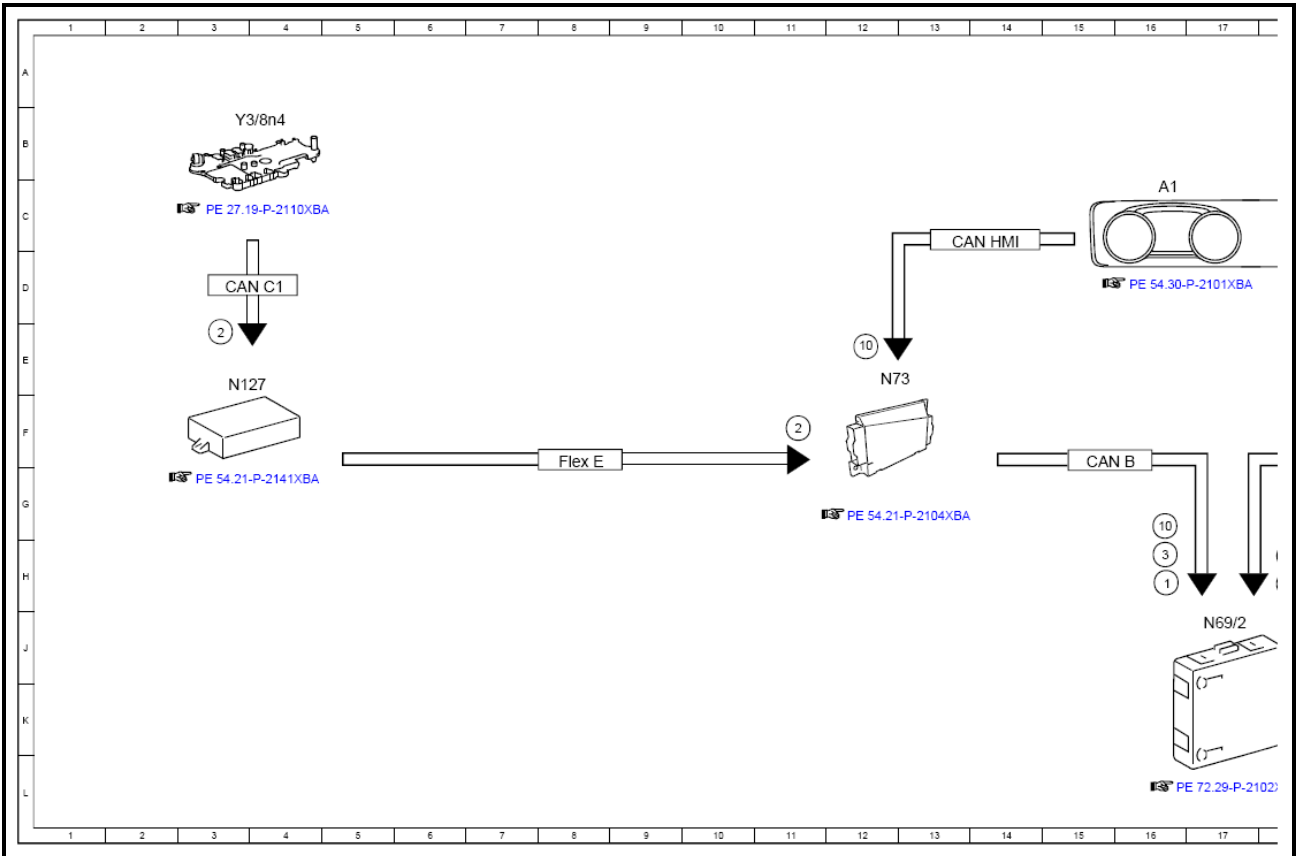
Â	Electrical function schematic for mirror lens adjustment	Â	<a href="#">PE88.79-P-2051-97XBA</a>
Â	Use of electrical function schematics	Â	<a href="#">OV00.01-P-1901-09A</a>

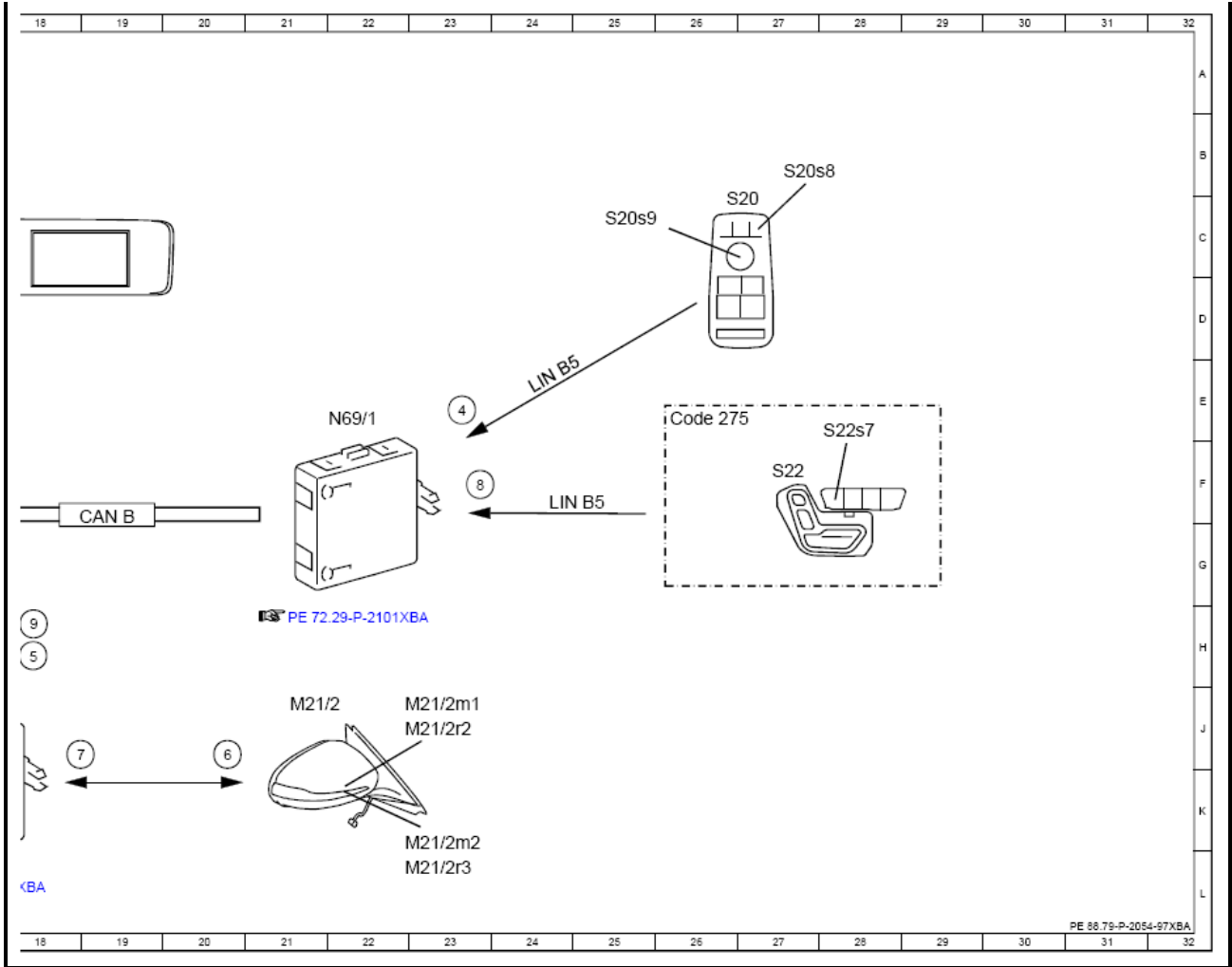
**ELECTRICAL FUNCTION SCHEMATIC FOR PASSENGER-SIDE OUTSIDE MIRROR PARK POSITION**

**Electrical Function Schematic For Passenger-Side Outside Mirror Park Position - PE88.79-P-2054-97XBA**

**Model 257, 290 up to model year 2021 with code P49 (MIRROR PACKAGE)**

<b>Code:</b>	<b>Designation:</b>	<b>Position:</b>
1	Circuit 15, status	16H
10	Vehicle speed, signal	12E
10	Vehicle speed, signal	16G
2	Selector lever position, status	11F
2	Selector lever position, status	3E
3	Reverse gear, status	16H
4	Driver-side switch group, status	23E
5	Outside mirror actuator motor, request	18H
6	Outside mirror actuator motor, actuation	20J
7	Potentiometer, signal	18J
8	Seat adjustment switch group, status	23F
9	Store passenger-side outside mirror park position, request	18H
A1	Instrument cluster	16C
CAN B	Interior CAN	15F
CAN B	Interior CAN	19F
CAN C1	Drive train CAN	3D
CAN HM1	User interface CAN	14C
Code 275	Memory package	26E
Flex E	Chassis FlexRay	8F
LIN B5	Left front door LIN	24E
LIN B5	Left front door LIN	24F
M21/2	Right outside mirror	21J
M21/2m1	Vertical inclination adjustment actuator motor	22J
M21/2m2	Horizontal inclination adjustment actuator motor	22K
M21/2r2	Vertical inclination adjustment potentiometer	22J
M21/2r3	Horizontal inclination adjustment potentiometer	22L
N127	Drivetrain control unit	3E
N69/1	Left front door control unit	22E
N69/2	Right front door control unit	17J
N73	Electronic ignition switch control unit	12E
S20	Driver-side power window and outside mirror adjustment switch group	26C
S20s8	Right outside mirror adjustment switch	27B
S20s9	Outside mirror adjustment switch	25C
S22	Left front seat adjustment switch group	27F
S22s7	Left front memory function switch	28E





**Electrical Function Schematic For Passenger-Side Outside Mirror Park Position - PE88.79-P-2054XBA**

**Model 257, 290 up to model year 2021 with code P49 (MIRROR PACKAGE)**

Â	Electrical function schematic for passenger-side outside mirror park position	Â	<a href="#">PE88.79-P-2054-97XBA</a>
Â	Use of electrical function schematics	Â	<a href="#">OV00.01-P-1901-09A</a>

**ELECTRICAL FUNCTION SCHEMATIC FOR MIRROR HEATER**

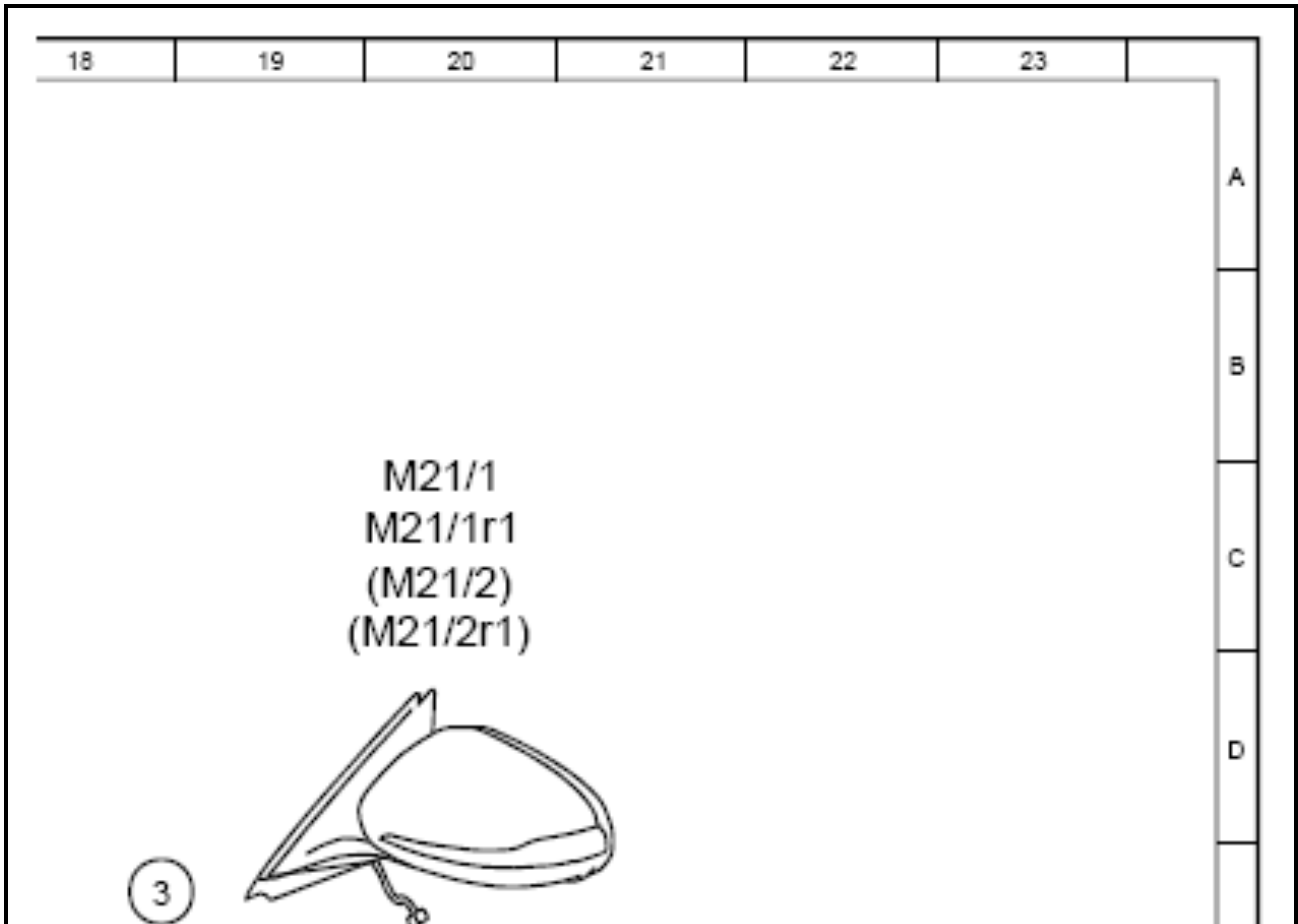
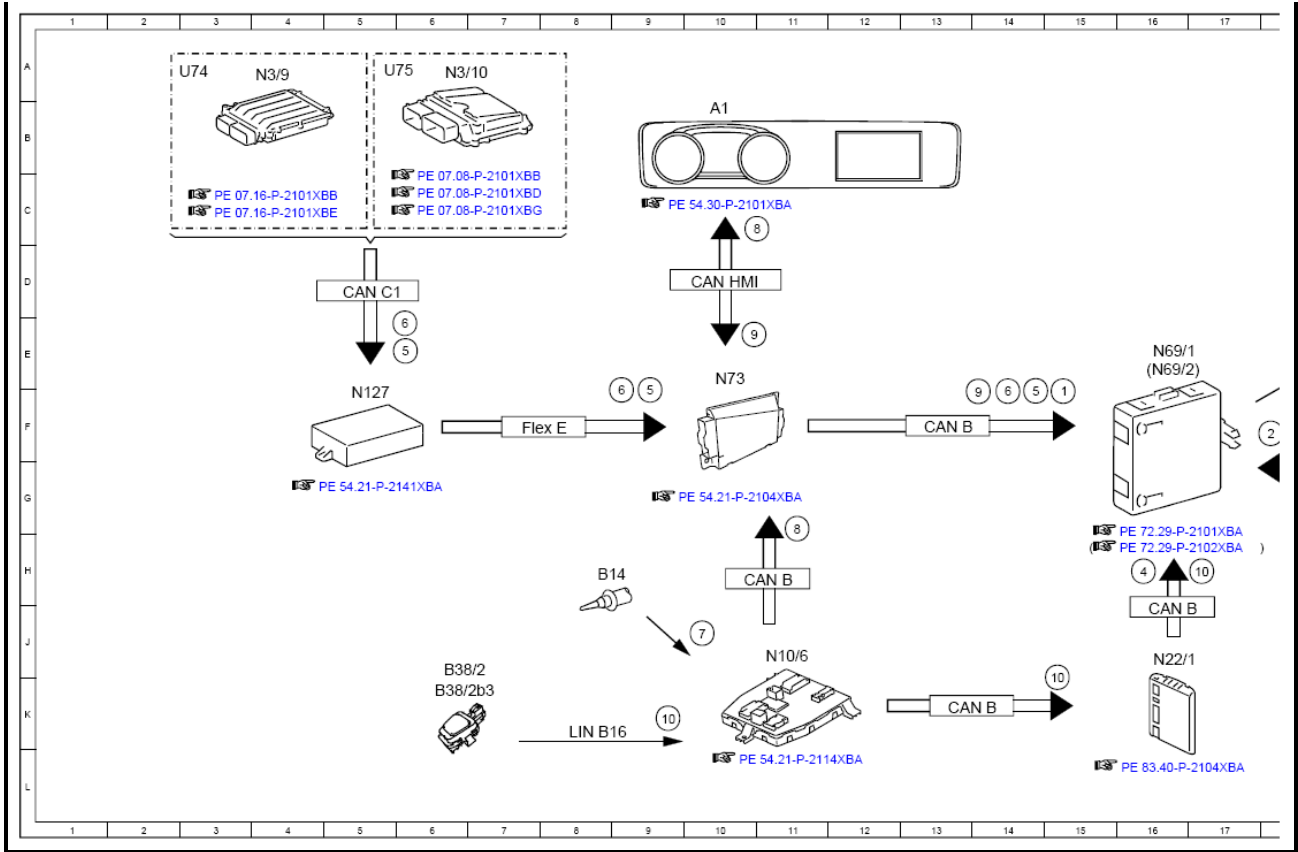
**Electrical Function Schematic For Mirror Heater - PE88.79-P-2055-97XBA**

**Model 257, 290 up to model year 2021**

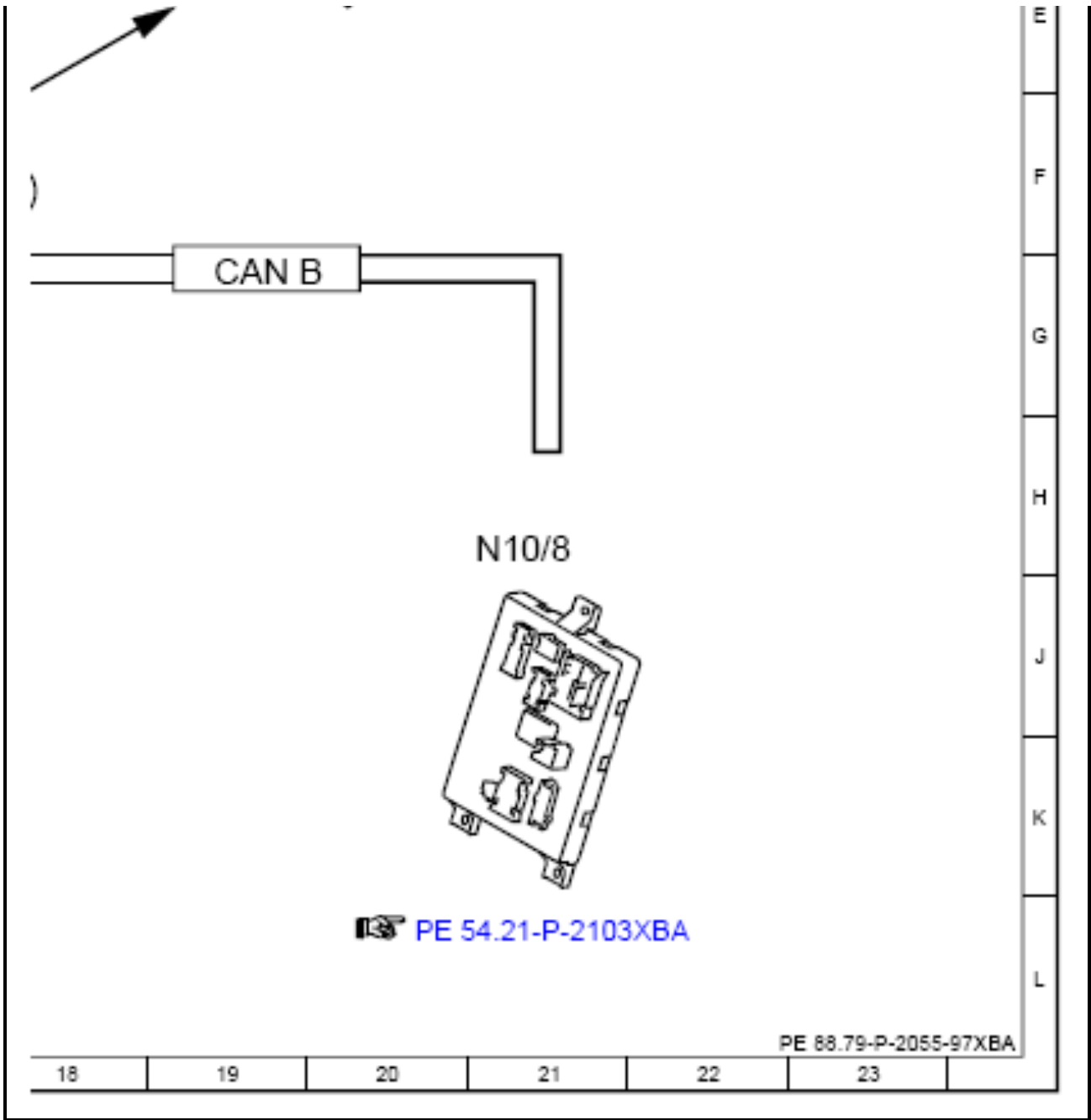
Code:	Designation:	Position:
1	Circuit 15, status	15F
10	Dew point temperature, signal	9K
10	Dew point temperature, signal	14K
10	Dew point temperature, signal	17H
2	Rear window heater, status	18F
3	Mirror heater, actuation	18E
4	Mirror heater, request	16H

5	Engine running, signal	6E
5	Engine running, signal	14F
5	Engine running, signal	9F
6	Drivetrain operational, signal	6E
6	Drivetrain operational, signal	14F
6	Drivetrain operational, signal	9F
7	Outside temperature sensor, signal	10J
8	Outside temperature, signal	11G
8	Outside temperature, signal	10C
9	Displayed outside temperature, signal	10E
9	Displayed outside temperature, signal	14F
A1	Instrument cluster	10B
B14	Outside temperature sensor	8H
B38/2	Rain/light sensor with additional functions	6J
B38/2b3	Humidity/temperature sensor	6K
CAN B	Interior CAN	13F
CAN B	Interior CAN	19G
CAN B	Interior CAN	11H
CAN B	Interior CAN	16J
CAN B	Interior CAN	13K
CAN C1	Drive train CAN	5D
CAN HMI	User interface CAN	10D
Flex E	Chassis FlexRay	7F
LIN B16	Rain and Light sensor LIN	8K
M21/1	Left outside mirror	20C
M21/1r1	Mirror heater	20C
M21/2	Right outside mirror	20C
M21/2r1	Mirror heater	20C
N10/6	Front SAM control unit	11J
N10/8	Rear SAM control unit	21H
N127	Drivetrain control unit	5F
N22/1	Climate control control unit	16J
N3/10	ME-SFI [ME] control unit	6A
N3/9	CDI control unit	4A
N69/1	Left front door control unit	16E
N69/2	Right front door control unit	16E
N73	Electronic ignition switch control unit	10E
U74	Valid for diesel engines	2A
U75	Valid for gasoline engines	5A









Electrical Function Schematic For Mirror Heater - PE88.79-P-2055XBA

Model 257, 290 up to model year 2021

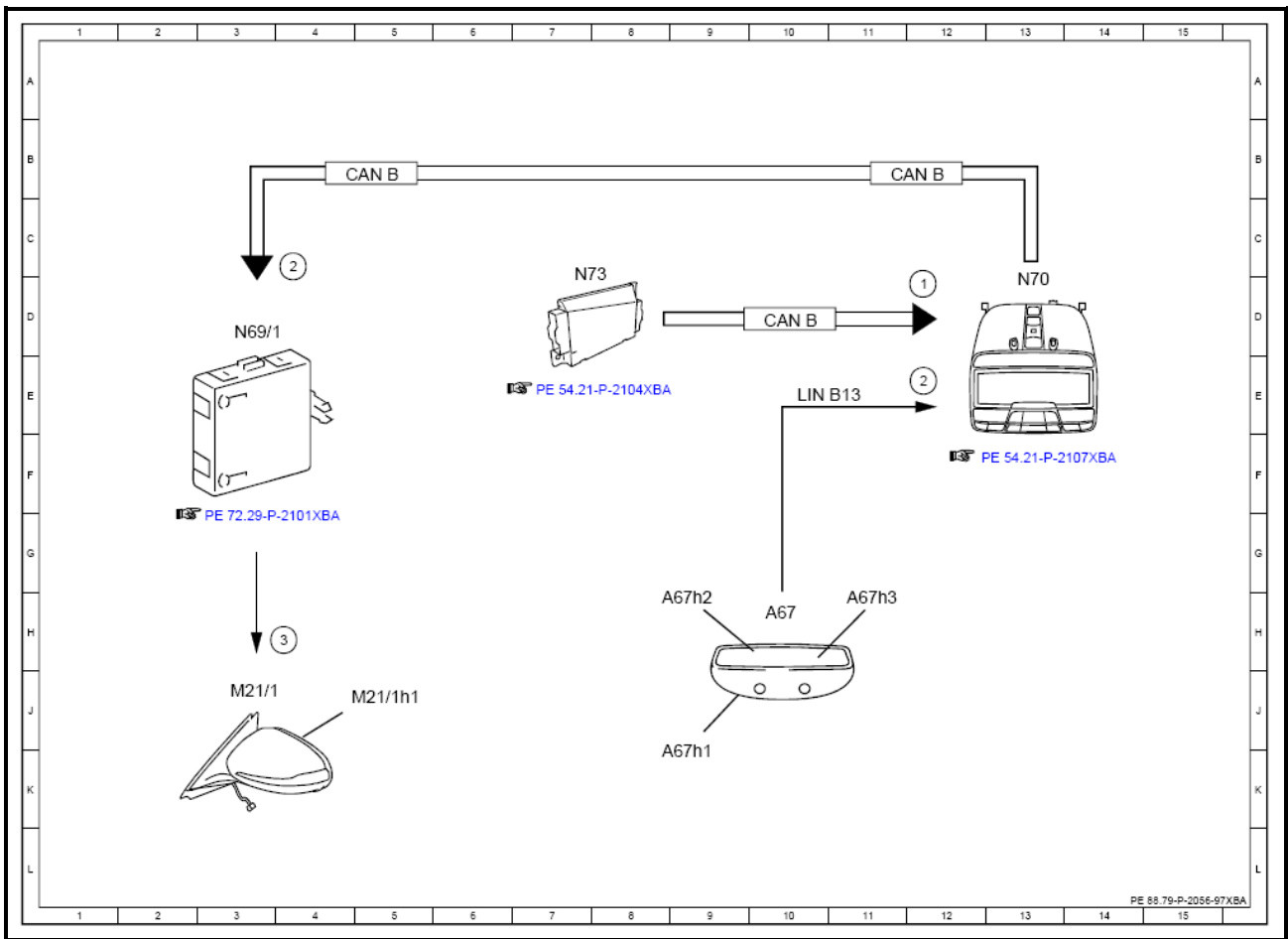
Â	Electrical function diagram for mirror heater	Â	<a href="#">PE88.79-P-2055-97XBA</a>
Â	Use of electrical function schematics	Â	<a href="#">OV00.01-P-1901-09A</a>

**ELECTRICAL FUNCTION SCHEMATIC FOR AUTOMATIC DIMMING MIRROR**

Electrical Function Schematic For Automatic Dimming Mirror - PE88.79-P-2056-97XBA

Model 257, 290 up to model year 2021 with code P49 (MIRROR PACKAGE)

Code:	Designation:	Position:
1	Circuit 15, status	12D
2	Mirror dimming, request	4C
2	Mirror dimming, request	12E
3	Mirror dimming, actuation	4H
A67	Inside rearview mirror	10H
A67h1	Forward automatic dimming mirror light sensor	8K
A67h2	Rearward automatic dimming mirror light sensor	8H
A67h3	Inside rearview mirror dimming	11H
CAN B	Interior CAN	5B
CAN B	Interior CAN	11B
CAN B	Interior CAN	10D
LIN B13	Roof LIN	10E
M21/1	Left outside mirror	3J
M21/1M	Automatic dimming mirror	4J
N69/1	Left front door control unit	3D
N70	Overhead control panel control unit	13D
N73	Electronic ignition switch control unit	7D



**Electrical Function Schematic For Automatic Dimming Mirror - PE88.79-P-2056XBA**

**Model 257, 290 up to model year 2021 with code P49 (MIRROR PACKAGE)**

Â	Electrical function schematic for automatic dimming mirror	Â	<a href="#">PE88.79-P-2056-97XBA</a>
Â	Use of electrical function schematics	Â	<a href="#">OV00.01-P-1901-09A</a>

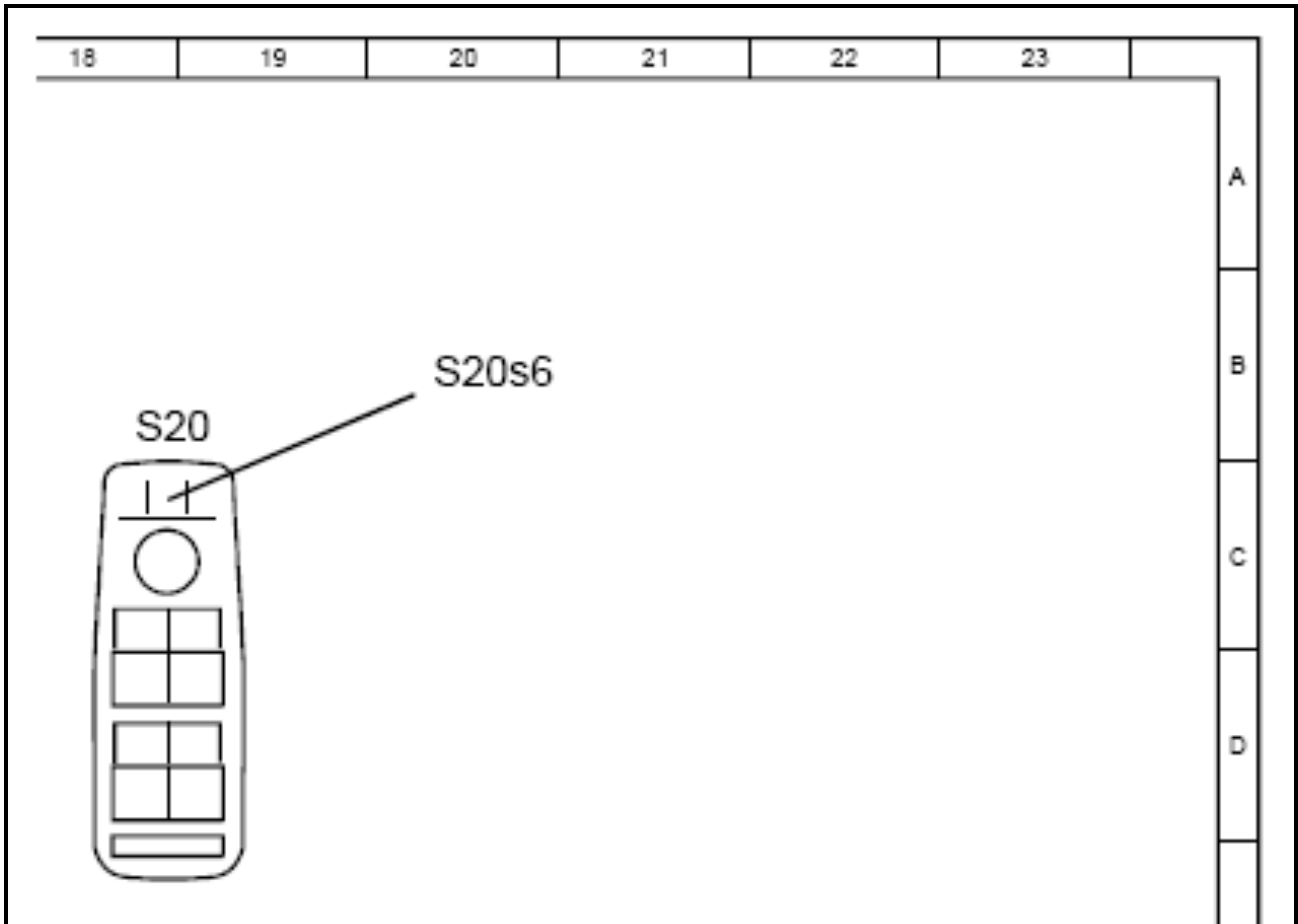
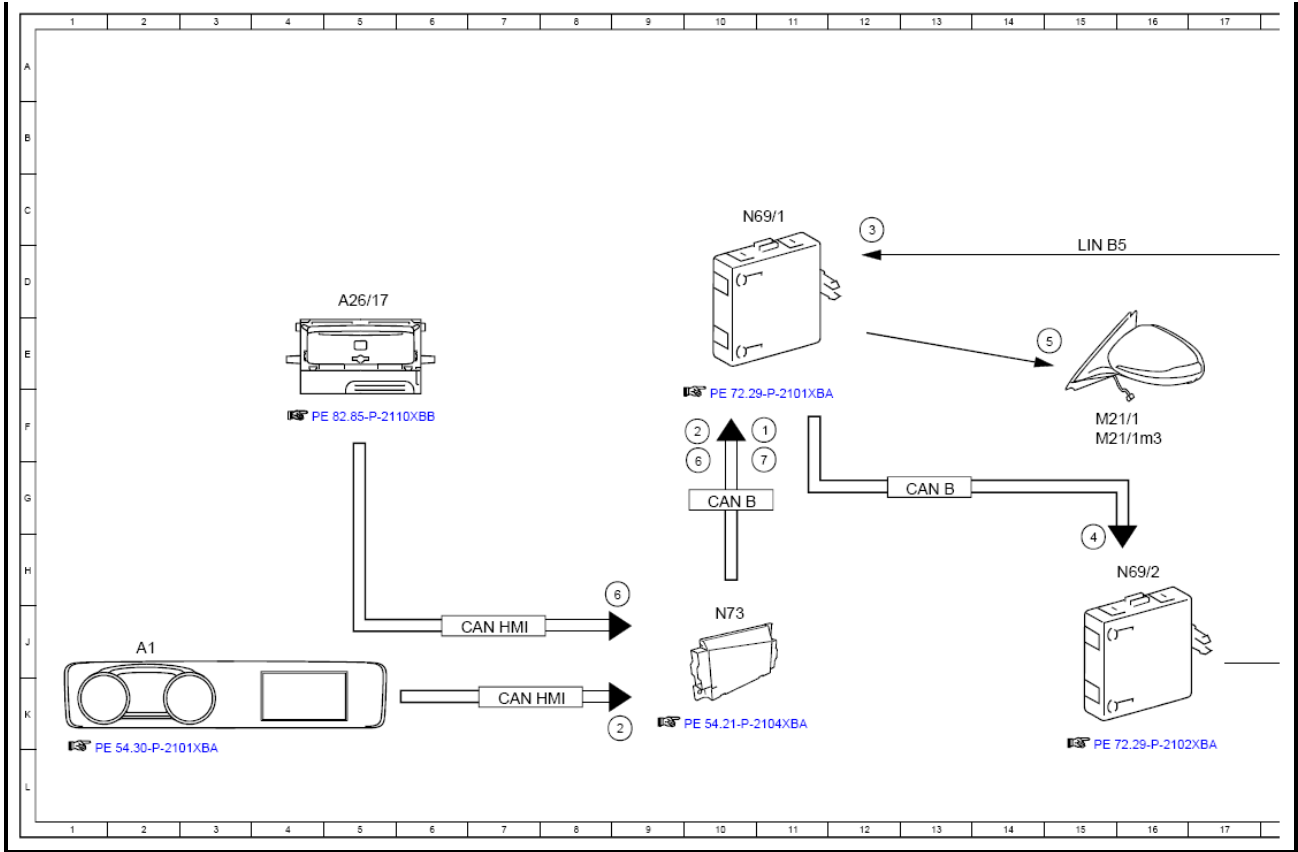
## ELECTRICAL FUNCTION SCHEMATIC FOR FOLDING OUTSIDE MIRRORS

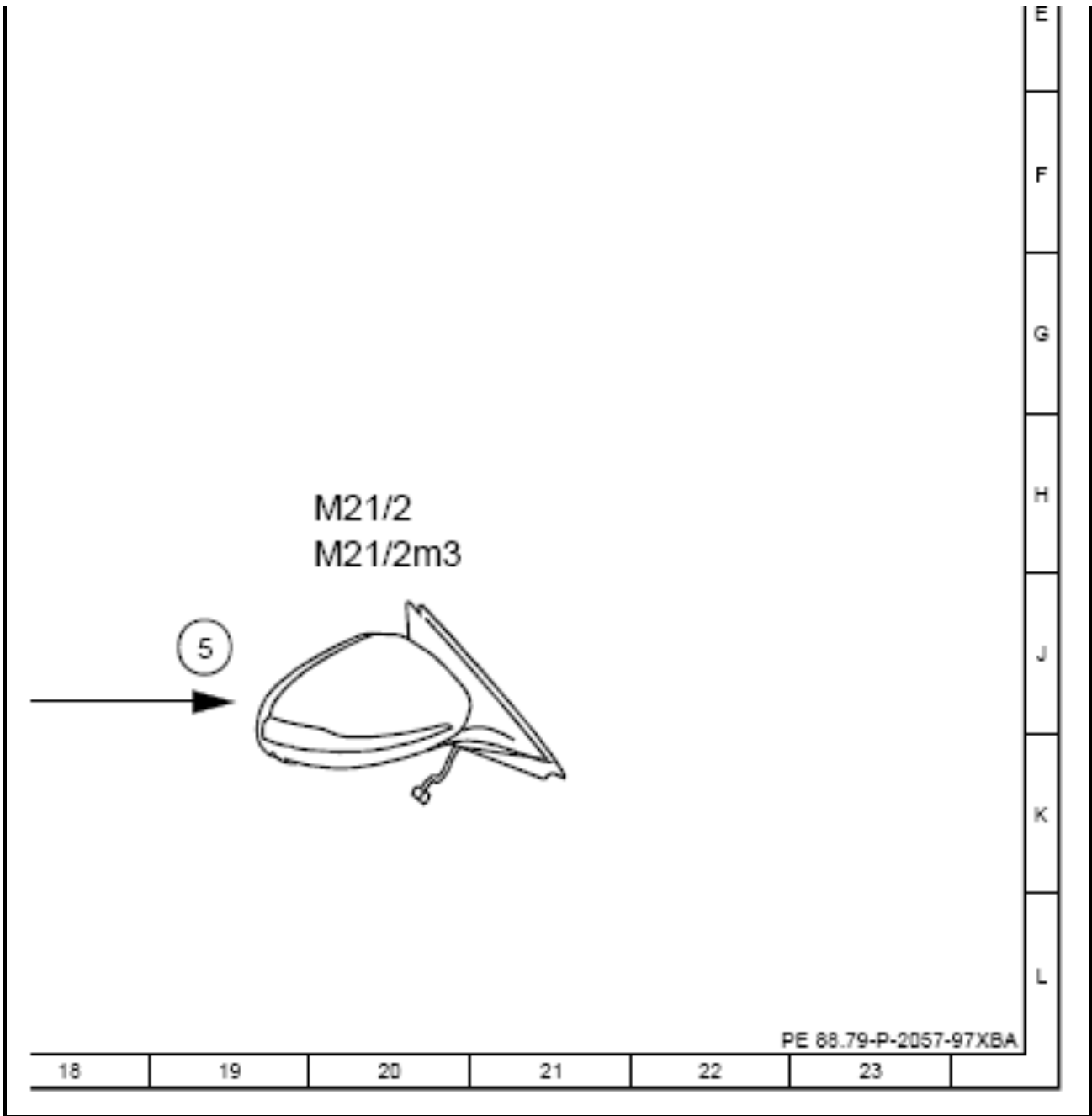
Electrical Function Schematic For Folding Outside Mirrors - PE88.79-P-2057-97XBA

**Model 257, 290 up to model year 2021 with code P49 (MIRROR PACKAGE)**

<b>Code:</b>	<b>Designation:</b>	<b>Position:</b>
1	Circuit 15, status	11F
2	Vehicle speed, signal	9K
2	Vehicle speed, signal	10F
3	Driver-side switch group, status	12C
4	Outside mirror actuator motor, request	15H
5	Outside mirror actuator motor, actuation	19J
5	Outside mirror actuator motor, actuation	15E
6	Automatic power folding mirrors, status	9H
6	Automatic power folding mirrors, status	10G
7	Central locking (CL [ZV]), status	11G
A1	Instrument cluster	2J
A26/17	Head unit	5D
CAN B	Interior CAN	10G
CAN B	Interior CAN	13G
CAN HMI	User interface CAN	7K
CAN HMI	User interface CAN	7J
LIN B5	Left front door LIN	15D
M21/1	Left outside mirror	15F
M21/1m3	Outside mirror fold-in/fold-out electric motor	15F
M21/2	Right outside mirror	20H
M21/2m3	Outside mirror fold-in/fold-out electric motor	20H
N69/1	Left front door control unit	10C
N69/2	Right front door control unit	16H
N73	Electronic ignition switch control unit	10J
S20	Driver-side power window and outside mirror adjustment switch group	18B
S20s6	Outside mirror fold-in/fold-out switch	20B







**Electrical Function Schematic For Folding Outside Mirrors - PE88.79-P-2057XBA**

**Model 257, 290 up to model year 2021 with code P49 (MIRROR PACKAGE)**

Â	Electrical function diagram for folding outside mirrors	Â	<a href="#">PE88.79-P-2057-97XBA</a>
Â	Use of electrical function schematics	Â	<a href="#">OV00.01-P-1901-09A</a>

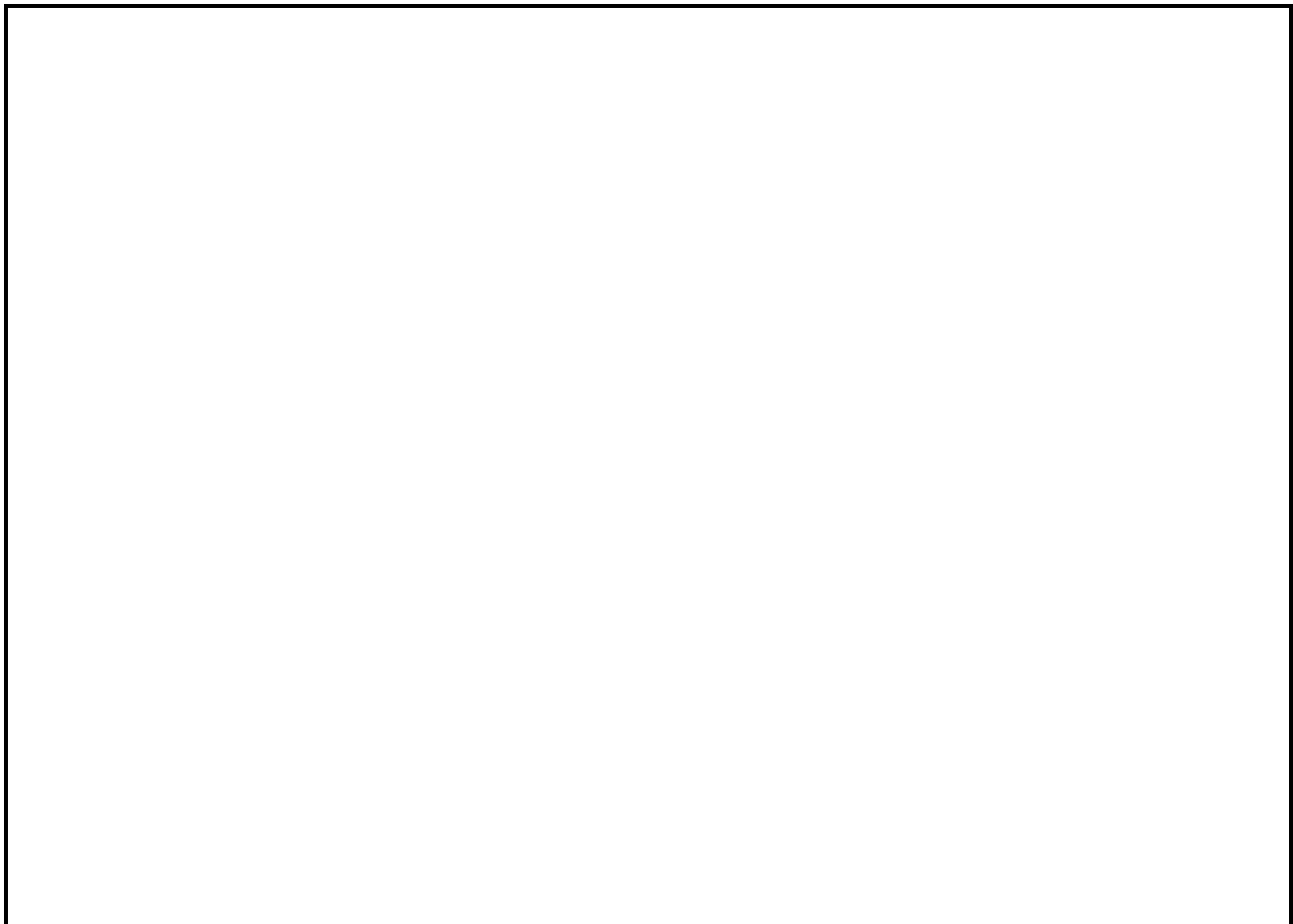
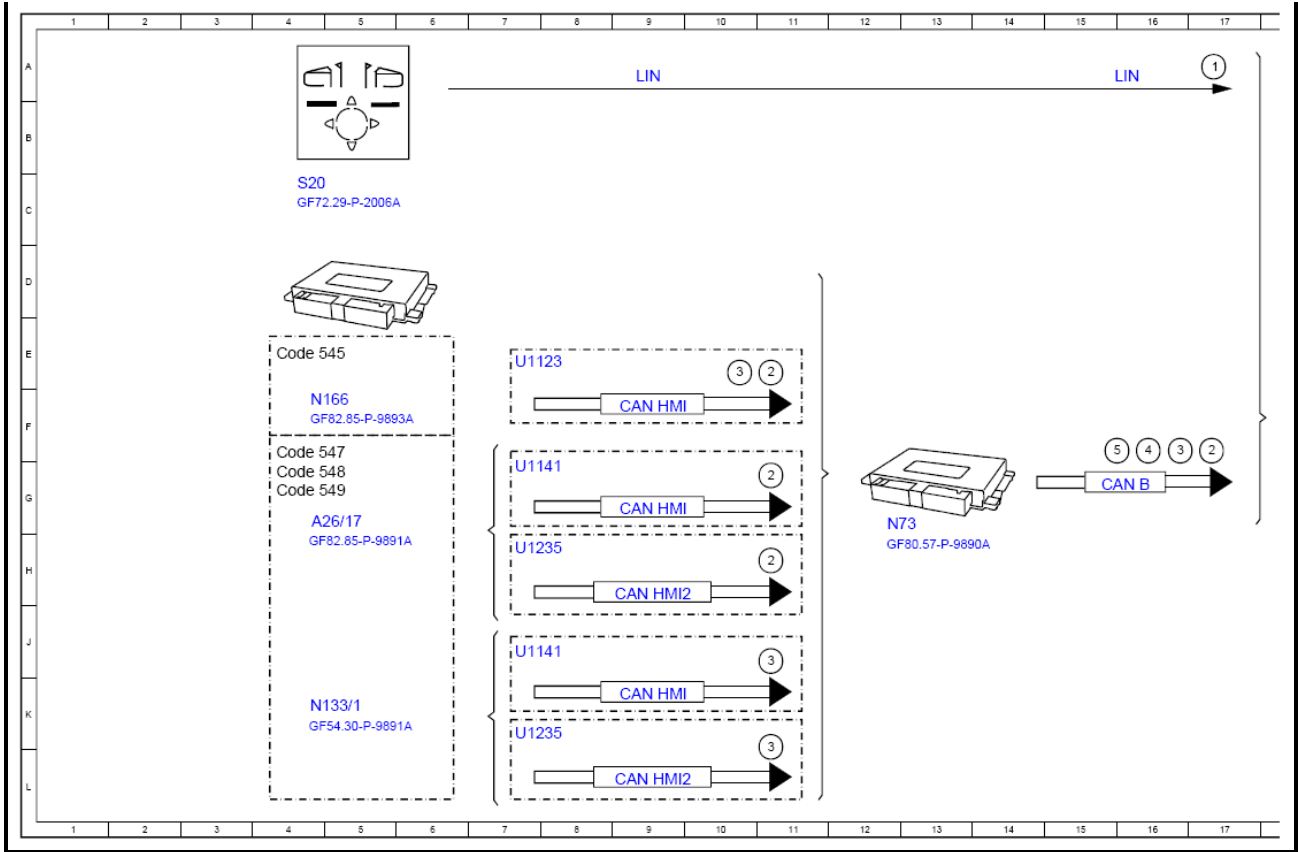
**FUNCTION SCHEMATIC, FOLD IN OUTSIDE MIRRORS**

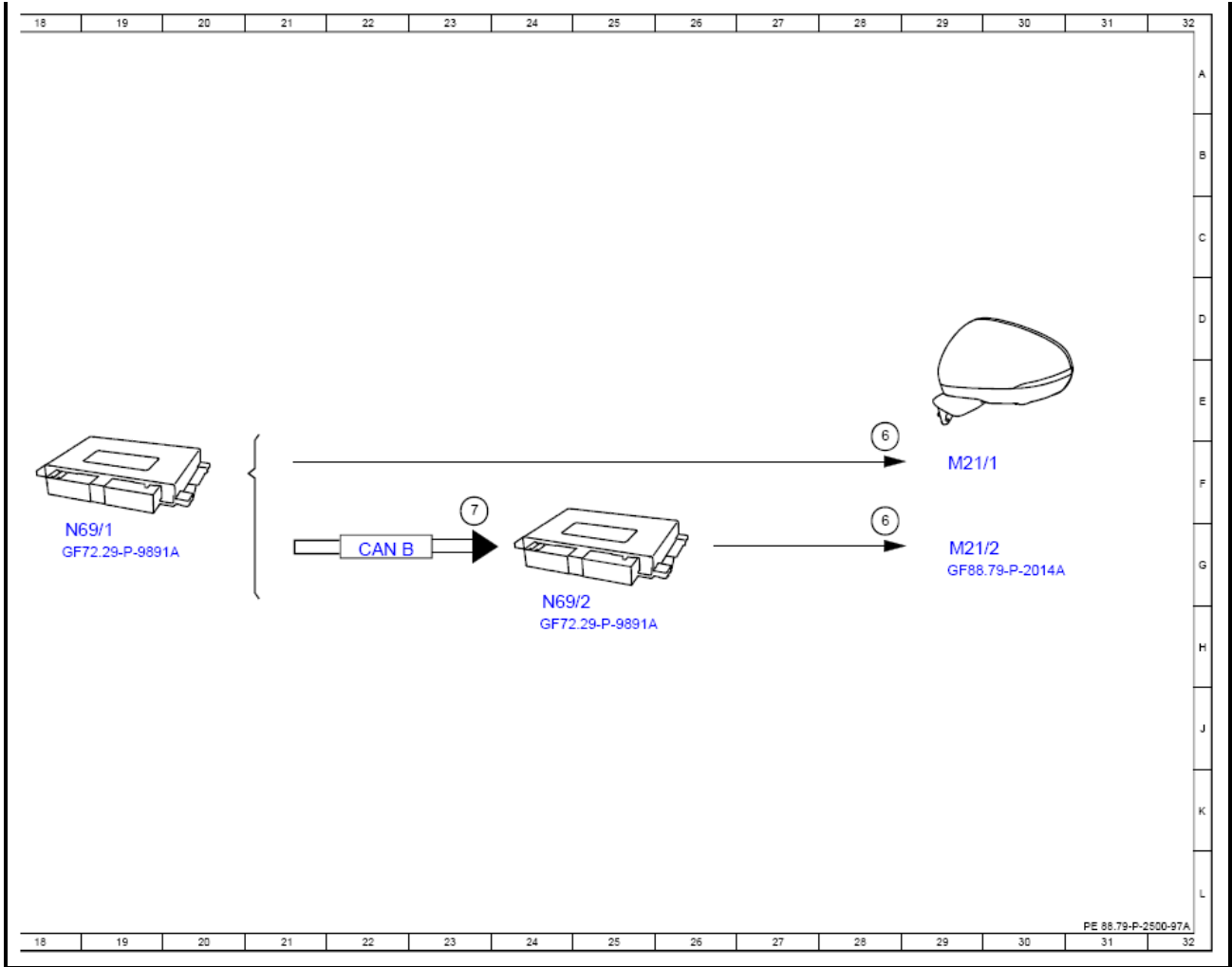
**Function Schematic, Fold In Outside Mirrors - PE88.79-P-2500-97A**

**Model 118, 167, 177, 243, 247, 293 with code 500 (Electrically folding exterior mirrors)**

**Model 213, 238, 257, 290 as of model year 2021 with code 500 (Electrically folding exterior mirrors)**

<b>Code:</b>	<b>Designation:</b>	<b>Position:</b>
1	Outside mirror fold-in/fold-out switch, status	17A
2	Automatic power folding mirrors, status	11E
2	Automatic power folding mirrors, status	11G
2	Automatic power folding mirrors, status	11H
2	Automatic power folding mirrors, status	17F
3	Displayed vehicle speed, signal	10E
3	Displayed vehicle speed, signal	16F
3	Displayed vehicle speed, signal	10J
3	Displayed vehicle speed, signal	10K
4	Circuit 15, status	16F
5	Central locking (CL [ZV]), status	16F
6	Outside mirror fold-in/fold-out electric motor, actuation	28F
6	Outside mirror fold-in/fold-out electric motor, actuation	28E
7	Fold outside mirrors out/in, request	23F
A26/17	Head unit	5G
CAN B	Interior CAN	15G
CAN B	Interior CAN	22G
CAN HMI	User interface CAN	9G
CAN HMI	User interface CAN	9F
CAN HMI	User interface CAN	9K
CAN HMI2	User interface CAN 2	9H
CAN HMI2	User interface CAN 2	9L
Code 545	Connect 5 (NTG6)	4E
Code 547	Connect 20 Entry (NTG6)	4F
Code 548	Connect 20 MID (NTG6)	4G
Code 549	Connect 20 HIGH (NTG6)	4G
LIN	Local Interconnect Network	9A
LIN	Local Interconnect Network	16A
M21/1	Left outside mirror	29F
M21/2	Right outside mirror	29G
N133/1	Instrument cluster control unit	4K
N166	Head unit/instrument cluster control unit	4F
N69/1	Left front door control unit	18G
N69/2	Right front door control unit	24H
N73	Electronic ignition switch control unit	12G
S20	Driver-side power window and outside mirror adjustment switch group	4C
U1123	Valid for model 118, 177, 247	7E
U1141	Valid except model 213, 238, 257, 290	7G
U1141	Valid except model 213, 238, 257, 290	7J
U1235	Valid for model 213, 238, 257, 290	7H
U1235	Valid for model 213, 238, 257, 290	7K





**Function Schematic, Fold In Outside Mirrors - PE88.79-P-2500A**

**Model 118, 167, 177, 243, 247, 293 with code 500 (Electrically folding exterior mirrors)**

**Model 213, 238, 257, 290 as of model year 2021 with code 500 (Electrically folding exterior mirrors)**

Â	Function schematic, fold in outside mirrors	Â	<a href="#">PE88.79-P-2500-97A</a>
Â	Use of electrical function schematics	Â	<a href="#">OV00.01-P-1901-09A</a>

**FUNCTION SCHEMATIC FOR AUTOMATIC DIMMING OF MIRROR GLASS OF INSIDE AND OUTSIDE MIRRORS**

**Function Schematic For Automatic Dimming Of Mirror Glass Of Inside And Outside Mirrors - PE88.79-P-2501-97A**

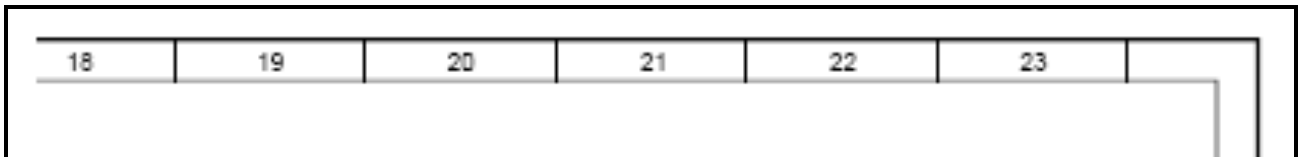
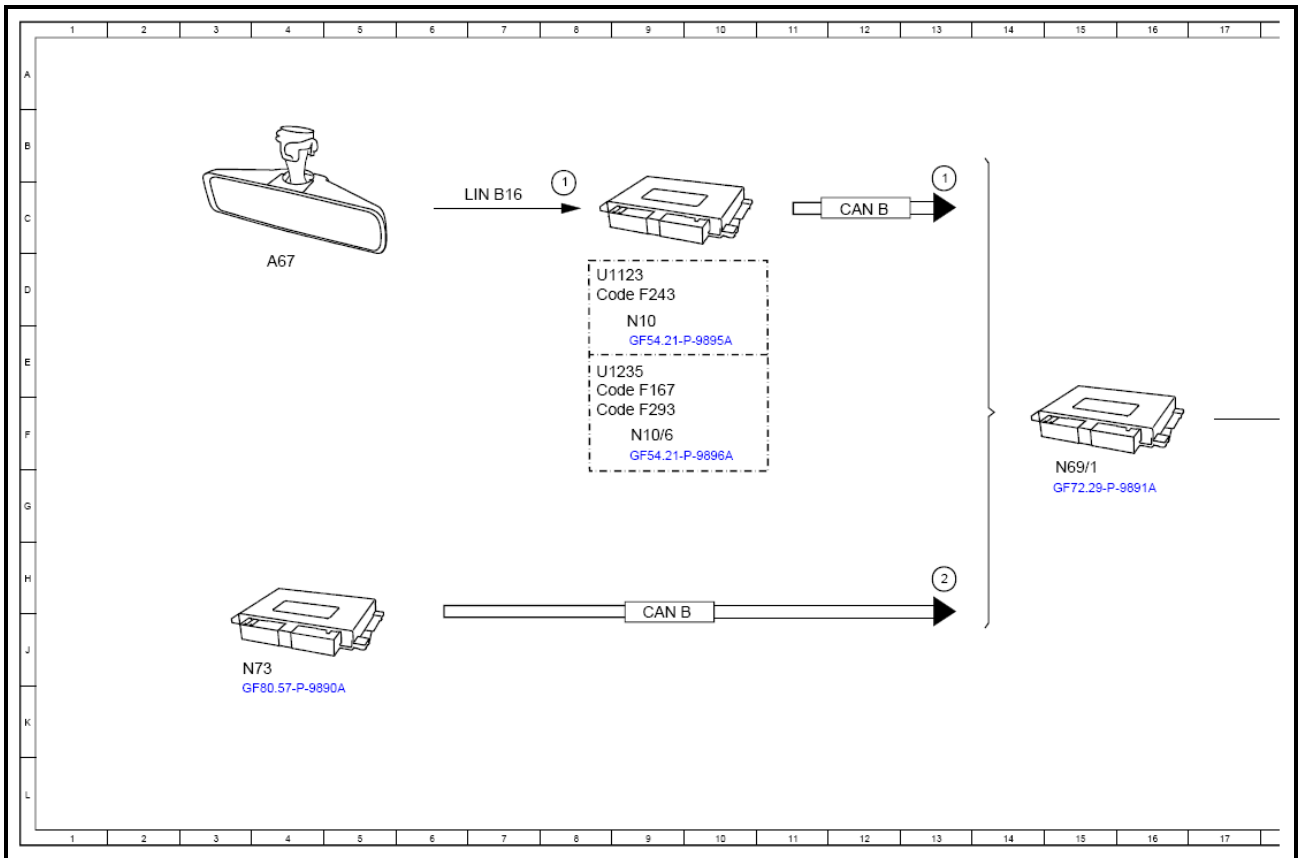
**Model 118, 167, 177, 243, 247, 293 with code 249 (Automatic dimming inside rearview mirror and outside mirrors)**

**Model 213, 238, 257, 290 as of model year 2021 with code 249 (Automatic dimming inside rearview mirror and outside mirrors)**

<b>Code:</b>	<b>Designation:</b>	<b>Position:</b>
1	Mirror dimming, request	8C



1	Mirror dimming, request	13C
2	Circuit 15, status	13H
3	Mirror dimming, actuation	18E
A67	Inside rearview mirror	4D
CAN B	Interior CAN	12C
CAN B	Interior CAN	9J
Code F167	Model series 167	8E
Code F243	MODEL SERIES 243	8D
Code F293	Model series 293	8F
LIN B16	Rain and light sensor LIN	7C
M21/1	Left outside mirror	19G
N10	Signal acquisition and actuation module	9E
N10/6	Front SAM control unit	9F
N69/1	Driver door control unit	15G
N73	Electronic ignition switch control unit	3J
U1123	Valid for model 118, 177, 247	8D
U1235	Valid for model 213, 238, 257, 290	8E



A

B

C

D

E

F

G

H

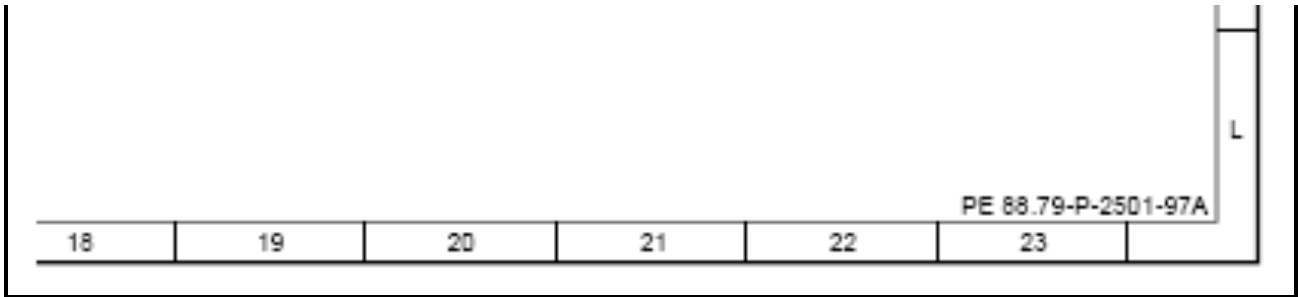
J

K

3



M21/1  
GF82.10-P-2004A



**Function Schematic For Automatic Dimming Of Mirror Glass Of Inside And Outside Mirrors - PE88.79-P-2501A**

**Model 118, 167, 177, 243, 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)**

Â	Function schematic for automatic dimming of mirror glass of inside and outside mirrors	Â	<a href="#">PE88.79-P-2501-97A</a>
Â	Use of electrical function schematics	Â	<a href="#">OV00.01-P-1901-09A</a>

**FUNCTION SCHEMATIC, HEAT MIRROR GLASS OF OUTSIDE MIRROR**

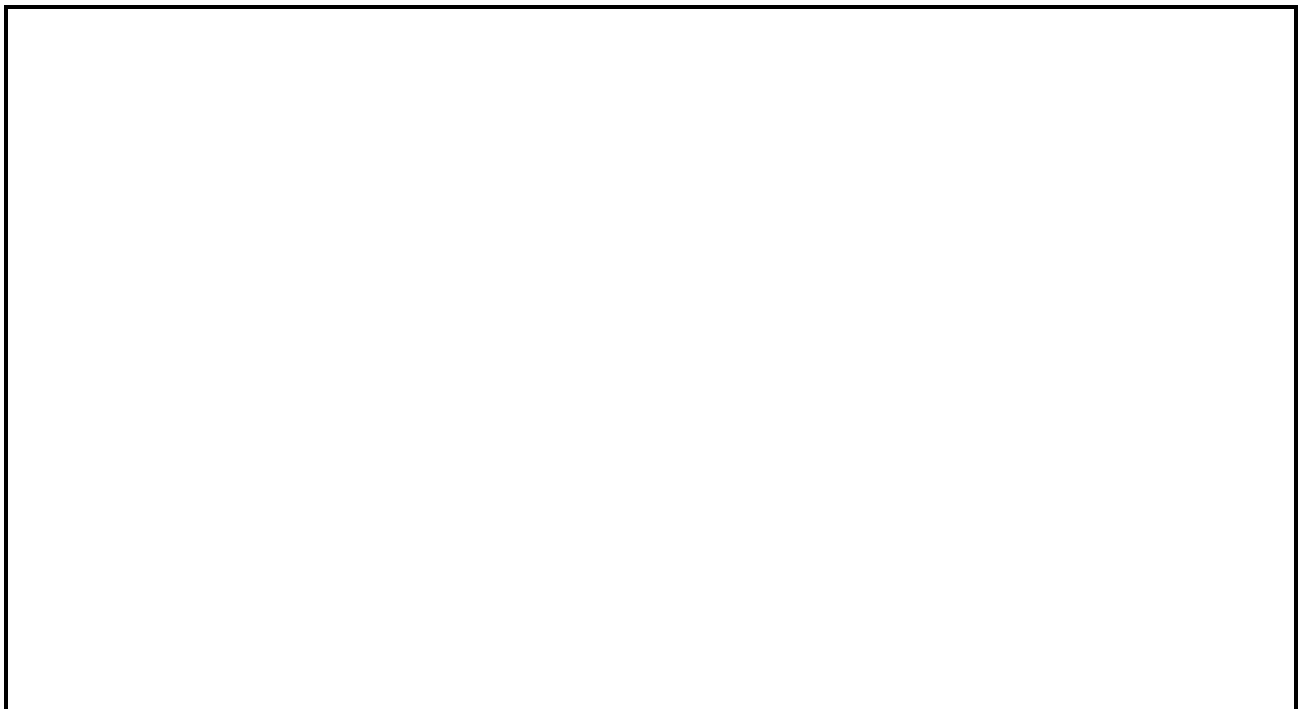
**Function Schematic, Heat Mirror Glass Of Outside Mirror - PE88.79-P-2502-97A**

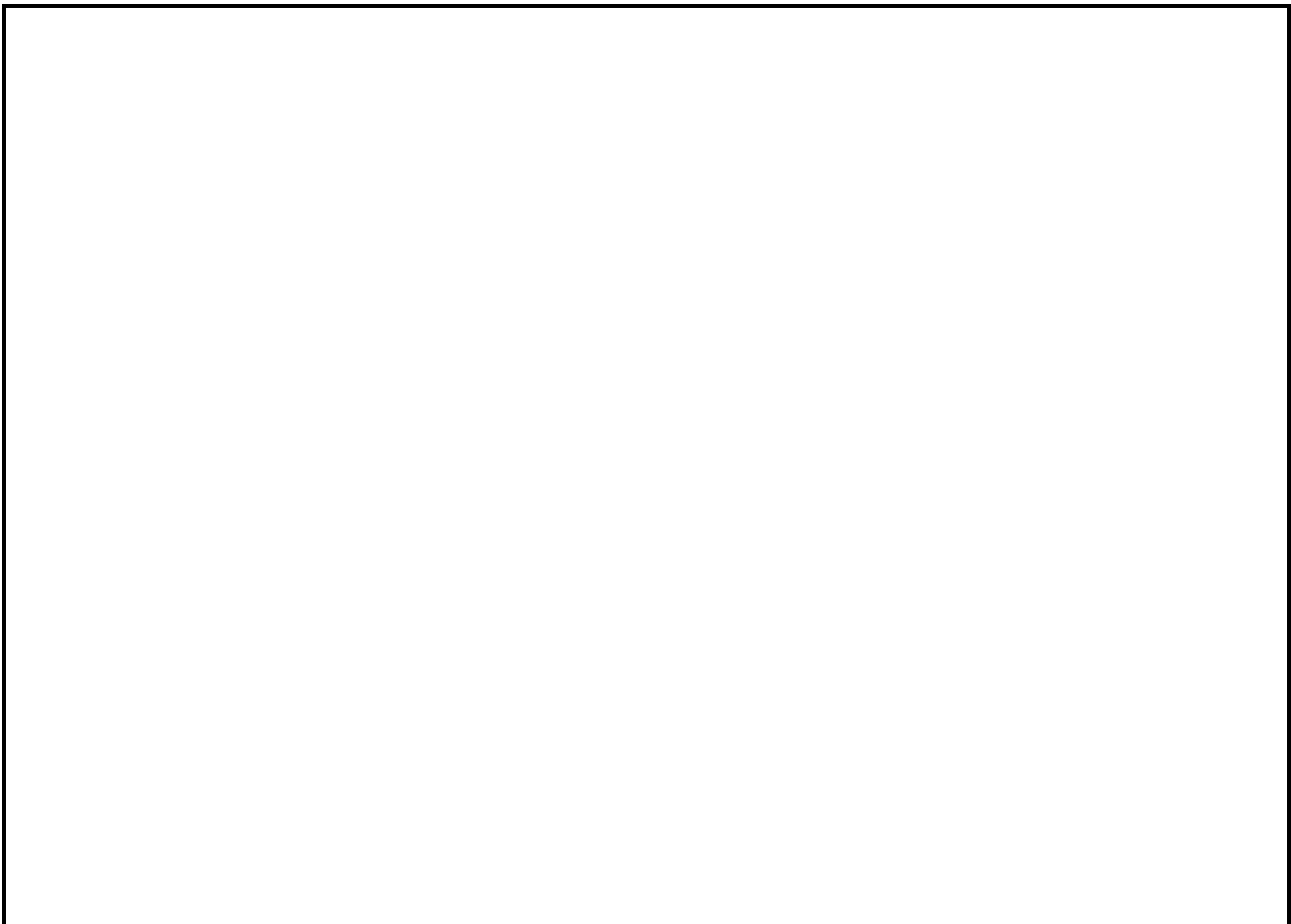
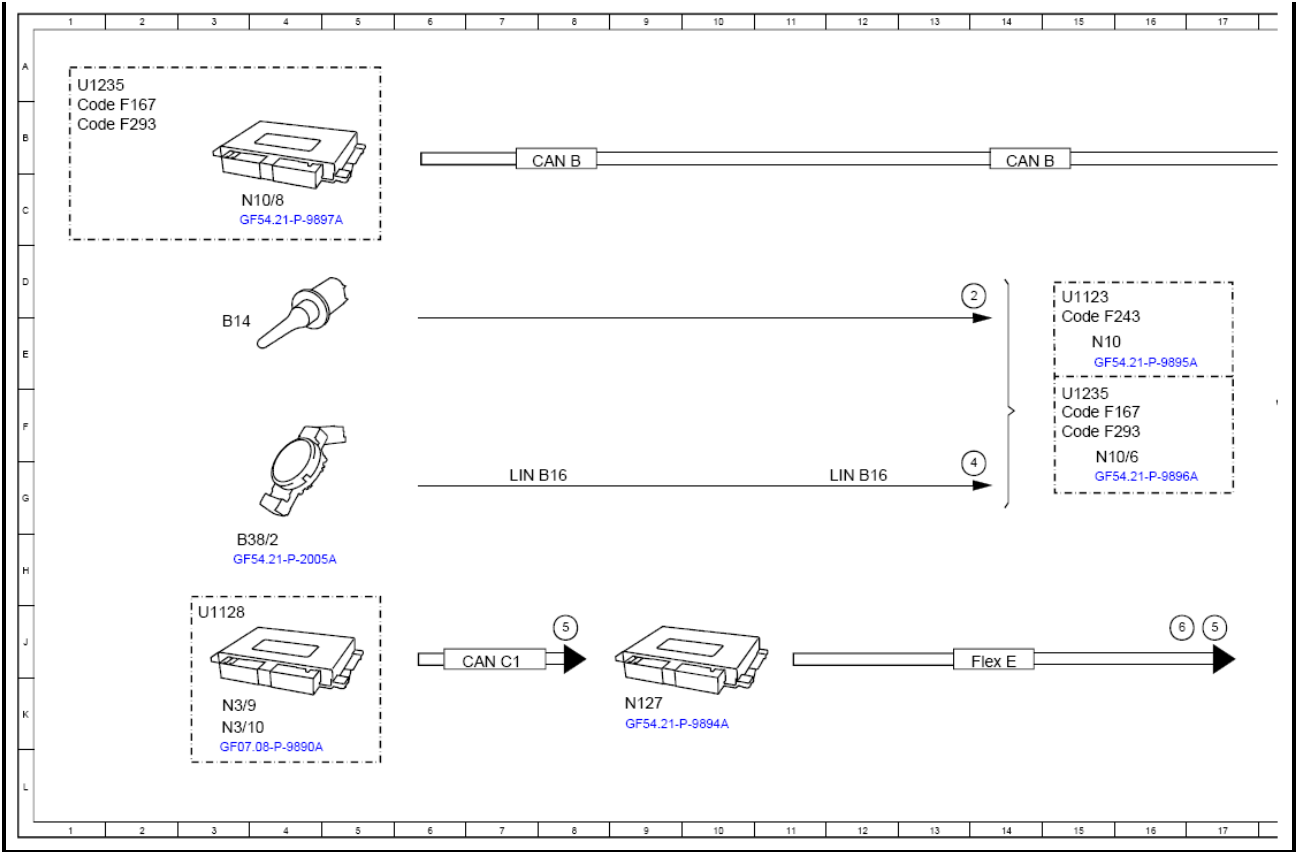
**Model 118, 167, 177, 243, 247, 293**

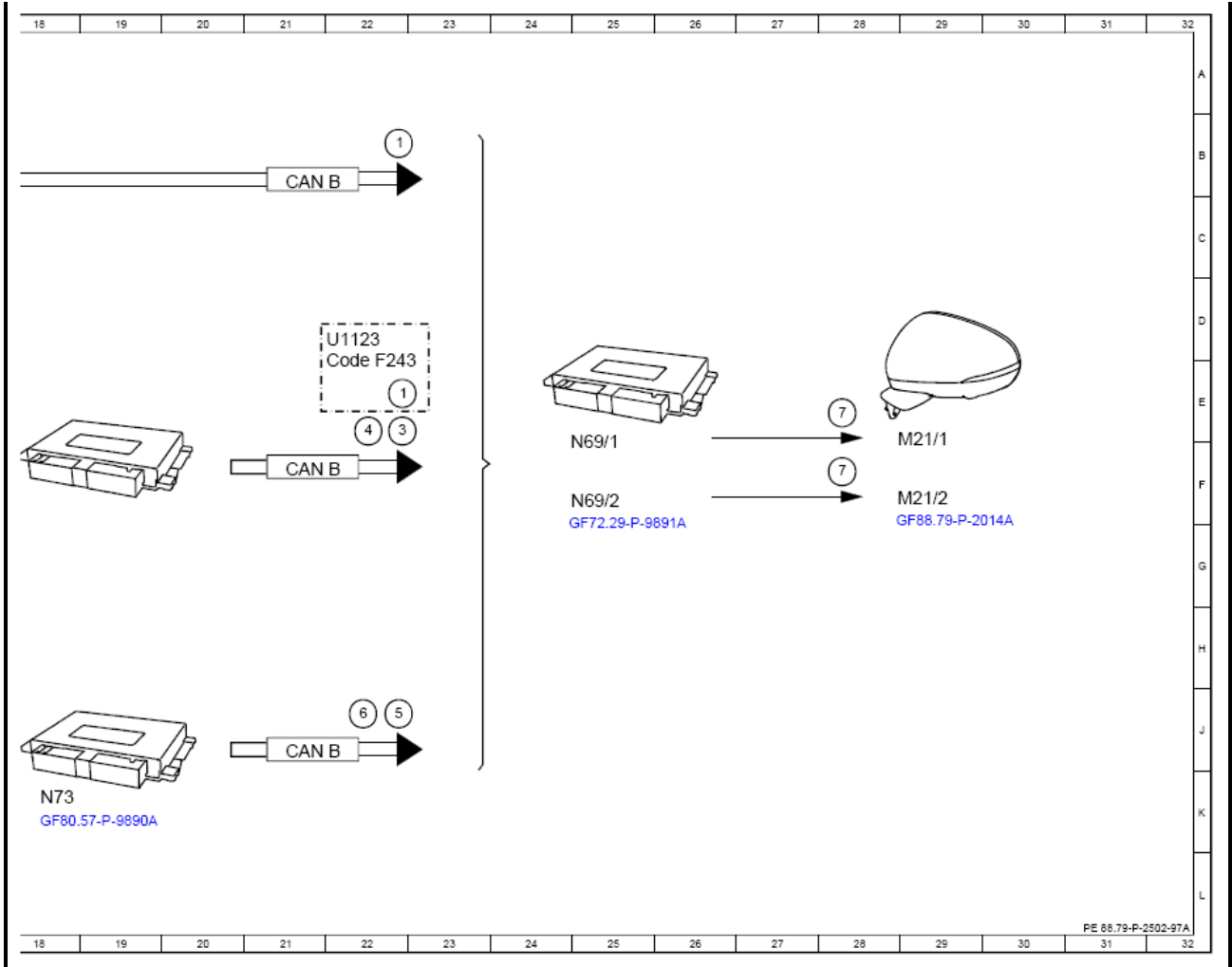
**Model 213, 238, 257, 290 as of model year 2021**

<b>Code:</b>	<b>Designation:</b>	<b>Position:</b>
1	Rear window heater, status	22E
1	Rear window heater, status	22B
2	Outside temperature sensor, signal	13D
3	Outside temperature, signal	22E
4	Dew point temperature, signal	14G
4	Dew point temperature, signal	22E
5	Engine running, signal	22J
5	Engine running, signal	8J
5	Engine running, signal	17J
6	Drivetrain operational, signal	16J
6	Drivetrain operational, signal	22J
7	Mirror heater, actuation	28F
7	Mirror heater, actuation	28E
B14	Outside temperature sensor	3E
B38/2	Rain/Light sensor with additional functions	3H
CAN B	Interior CAN	8B
CAN B	Interior CAN	14B
CAN B	Interior CAN	21J
CAN B	Interior CAN	21F

CAN B	Interior CAN	21B
CAN C1	Drive train CAN	7J
Code F167	Model series 167	1B
Code F167	Model series 167	15F
Code F243	MODEL SERIES 243	22E
Code F243	MODEL SERIES 243	15E
Code F293	Model series 293	1B
Code F293	Model series 293	15F
Flex E	Chassis FlexRay	14J
LIN B16	Rain and light sensor LIN	12G
LIN B16	Rain and light sensor LIN	7G
M21/1	Left outside mirror	29F
M21/2	Right outside mirror	29F
N10	Signal acquisition and actuation module	15E
N10/6	Front SAM control unit	15G
N10/8	Rear SAM control unit	4C
N127	Drivetrain control unit	9K
N3/10	ME-SFI [ME] control unit	3K
N3/9	CDI control unit	3K
N69/1	Driver door control unit	25F
N69/2	Front passenger door control unit	25F
N73	Electronic ignition switch control unit	18K
U1123	Valid for model 118, 177, 247	15D
U1123	Valid for model 118, 177, 247	22D
U1128	Valid for combustion engine	3J
U1235	Valid for model 213, 238, 257, 290	1A
U1235	Valid for model 213, 238, 257, 290	15F







**Function Schematic, Heat Mirror Glass Of Outside Mirror - PE88.79-P-2502A**

**Model 118, 167, 177, 243, 247, 293**

**Model 213, 238, 257, 290 as of model year 2021**

Â	Function schematic, heat mirror glass of outside mirror	Â	<a href="#">PE88.79-P-2502-97A</a>
Â	Use of electrical function schematics	Â	<a href="#">OV00.01-P-1901-09A</a>

**FUNCTION SCHEMATIC, ADJUST MIRROR GLASS OF OUTSIDE MIRROR**

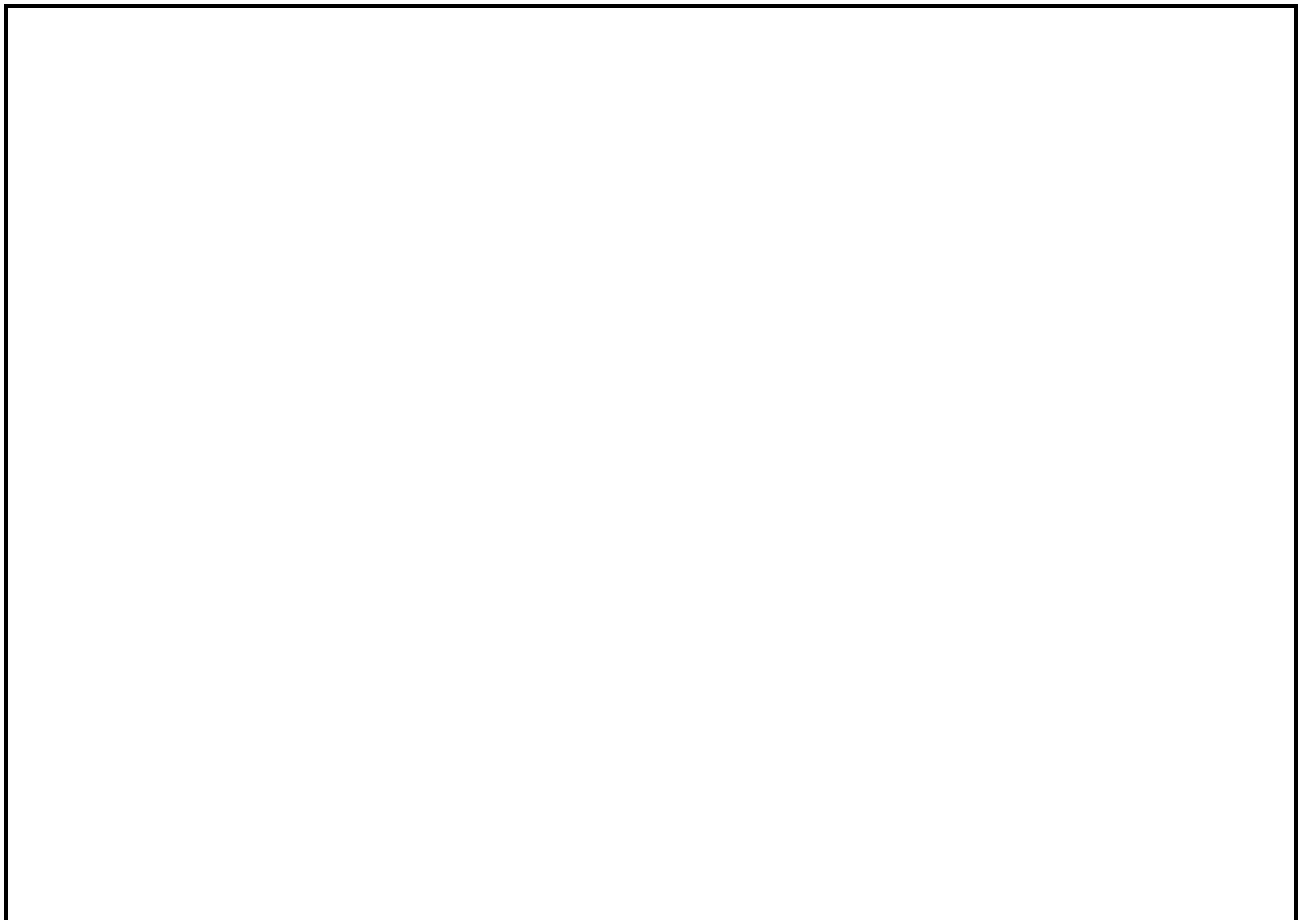
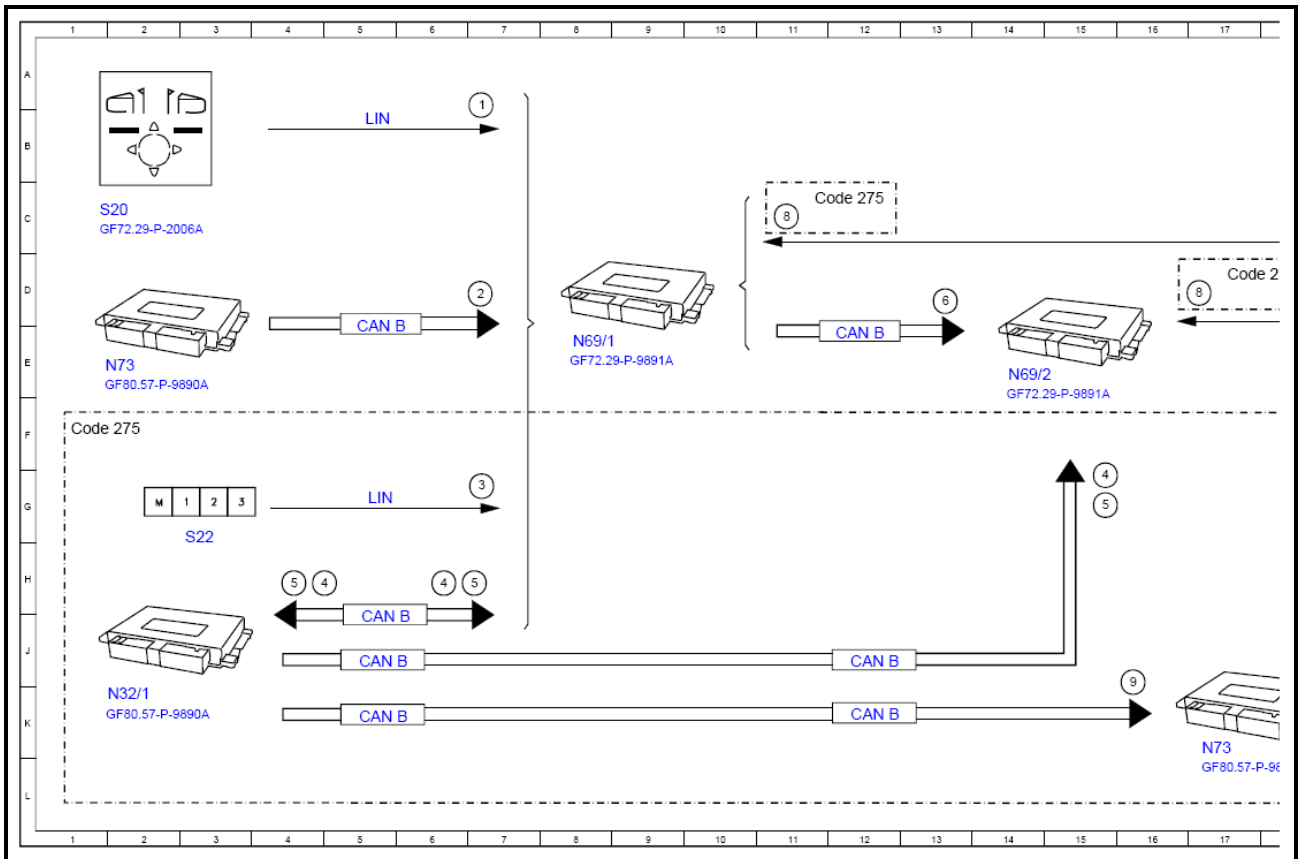
**Function Schematic, Adjust Mirror Glass Of Outside Mirror - PE88.79-P-2503-97A**

**Model 118, 167, 177, 243, 247, 293**

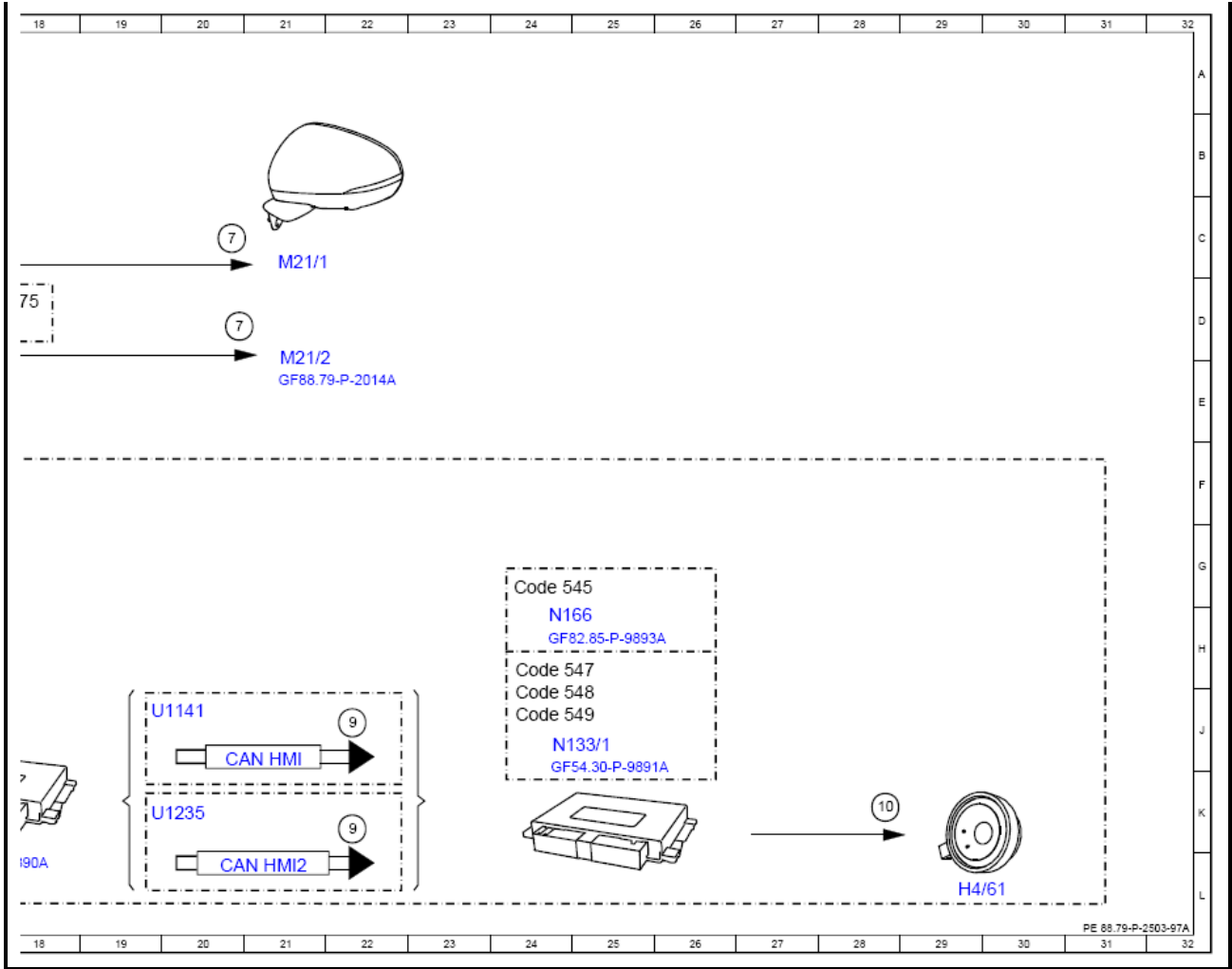
**Model 213, 238, 257, 290 as of model year 2021**

<b>Code:</b>	<b>Designation:</b>	<b>Position:</b>
1	Outside mirror adjustment switch, status	7A
10	Speaker, actuation	28K
2	Circuit 15, status	7D
3	Memory function switch, status	7G

4	Store memory position, request	5H
4	Store memory position, request	7H
4	Store memory position, request	15G
5	Adopt memory position, request	4H
5	Adopt memory position, request	7H
5	Adopt memory position, request	15G
6	Outside mirror adjustment, request	13D
7	Outside mirror actuator motor, actuation	20D
7	Outside mirror actuator motor, actuation	20C
8	Potentiometer, signal	17D
8	Potentiometer, signal	10C
9	Acknowledgement tone after memory positions stored successfully, request	16K
9	Acknowledgement tone after memory positions stored successfully, request	22K
9	Acknowledgement tone after memory positions stored successfully, request	22J
CAN B	Interior CAN	5K
CAN B	Interior CAN	5J
CAN B	Interior CAN	5J
CAN B	Interior CAN	12K
CAN B	Interior CAN	12J
CAN B	Interior CAN	5E
CAN B	Interior CAN	12E
CAN HMI	User interface CAN	21J
CAN HMI2	User interface CAN 2	21L
Code 275	Memory package	1F
Code 275	Memory package	11C
Code 275	Memory package	17D
Code 545	Connect 5 (NTG6)	24G
Code 547	Connect 20 Entry (NTG6)	24H
Code 548	Connect 20 MID (NTG6)	24J
Code 549	Connect 20 HIGH (NTG6)	24J
H4/61	Instrument cluster speaker	29L
LIN	Local Interconnect Network	5G
LIN	Local Interconnect Network	5B
M21/1	Left outside mirror	21C
M21/2	Right outside mirror	21E
N133/1	Instrument cluster control unit	24J
N166	Head unit/instrument cluster control unit	24H
N32/1	Driver seat control unit	2K
N69/1	Left front door control unit	8E
N69/2	Right front door control unit	14E
N73	Electronic ignition switch control unit	2E
N73	Electronic ignition switch control unit	17K
S20	Driver-side power window and outside mirror adjustment switch group	1C
S22	Left front seat adjustment switch group	3G
U1141	Valid except model 213, 238, 257, 290	19J
U1235	Valid for model 213, 238, 257, 290	19K







**Function Schematic, Adjust Mirror Glass Of Outside Mirror - PE88.79-P-2503A**

**Model 118, 167, 177, 243, 247, 293**

**Model 213, 238, 257, 290 as of model year 2021**

Â	Function schematic, adjust mirror glass of outside mirror	Â	<a href="#">PE88.79-P-2503-97A</a>
Â	Use of electrical function schematics	Â	<a href="#">OV00.01-P-1901-09A</a>

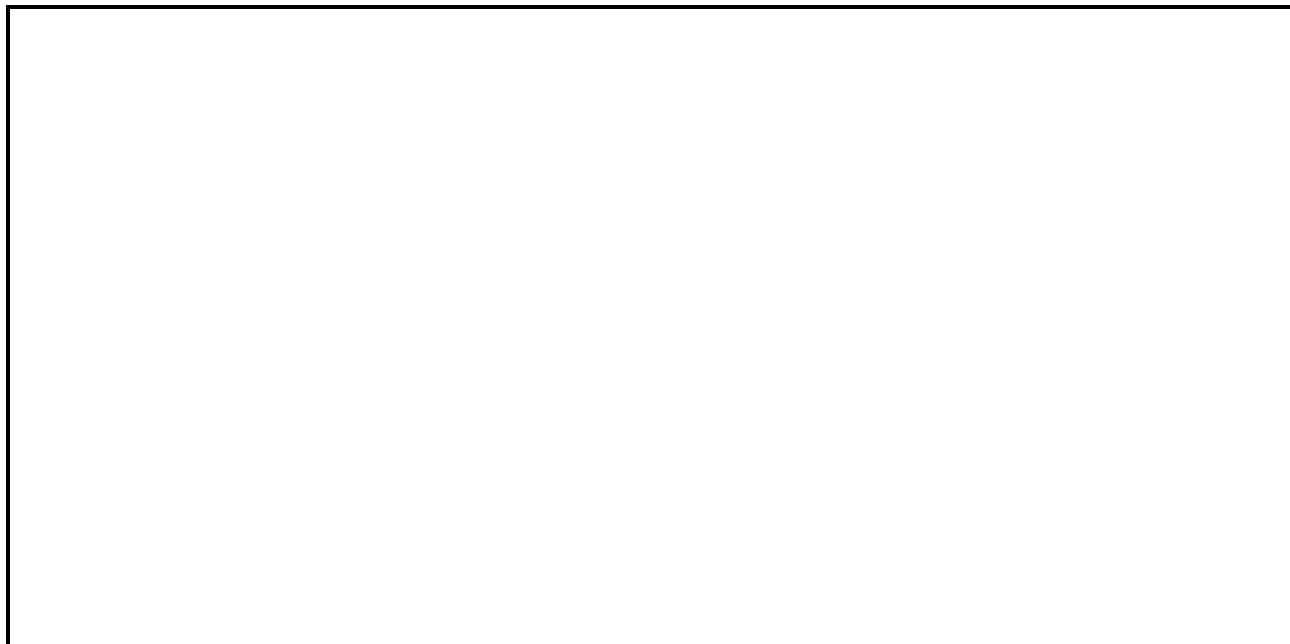
**FUNCTION SCHEMATIC, MOVE MIRROR GLASS OF OUTSIDE MIRROR TO PARKING POSITION**

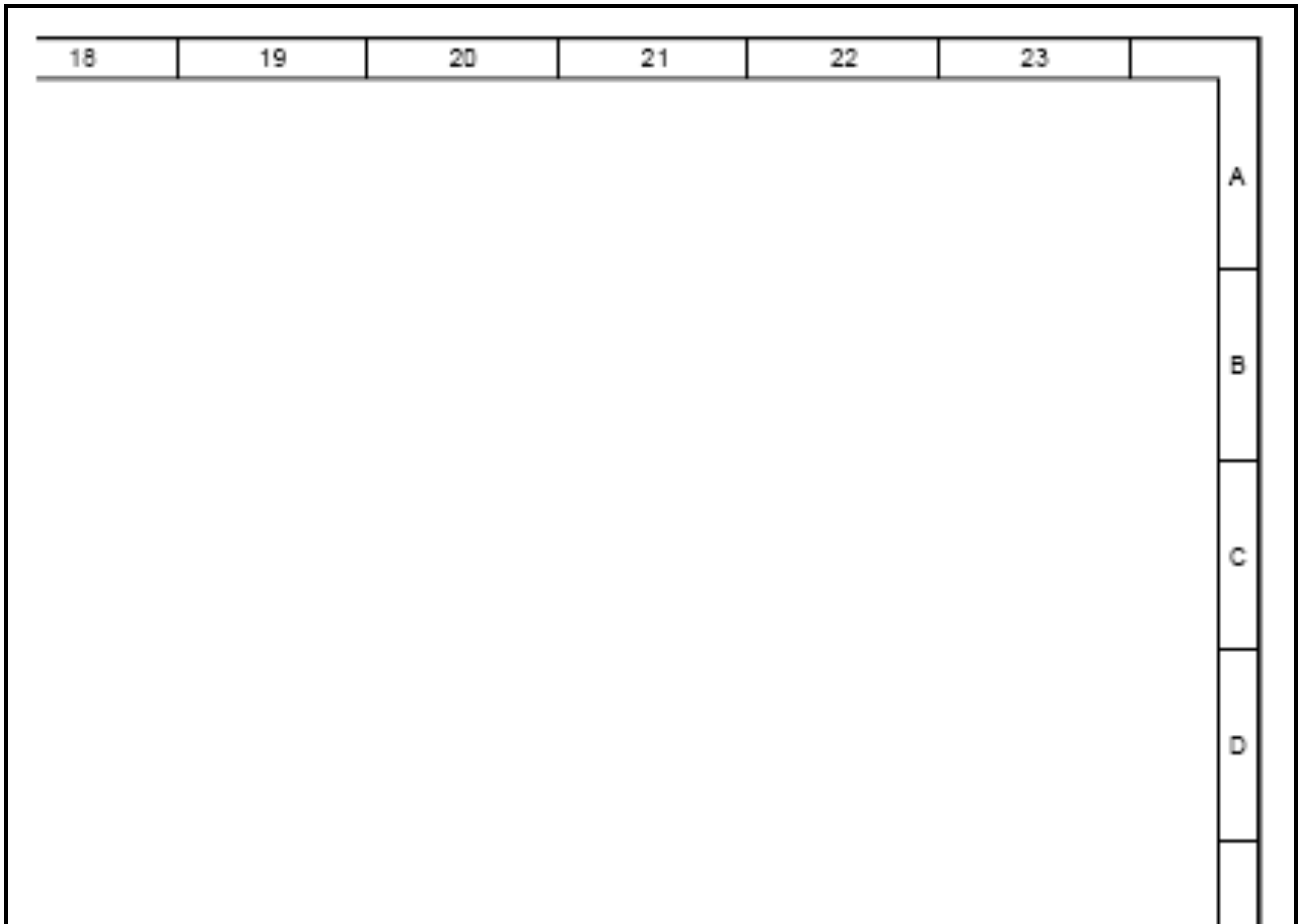
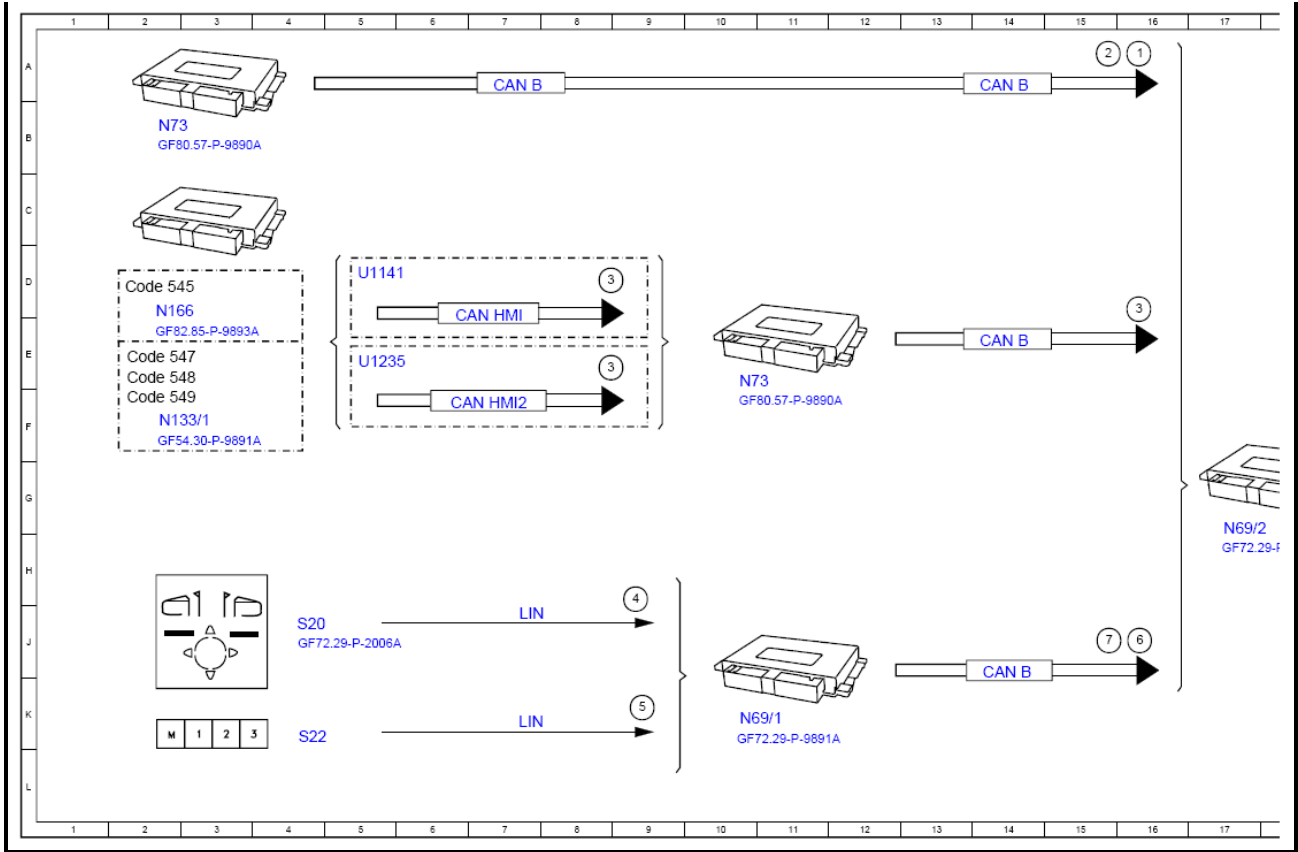
**Function Schematic, Move Mirror Glass Of Outside Mirror To Parking Position - PE88.79-P-2504-97A**

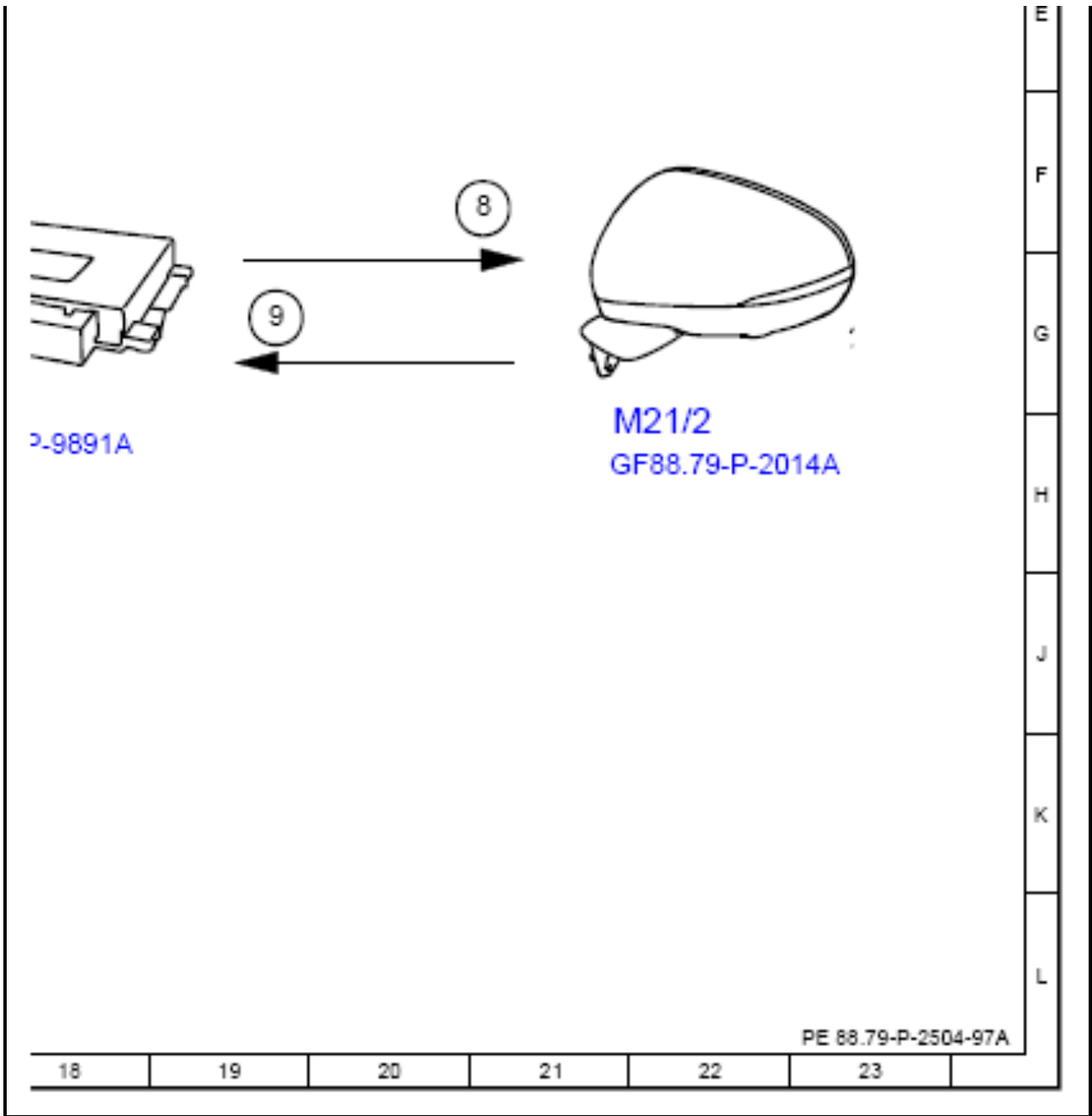
**Model 118, 177, 243, 247 with code 275 (Memory Package (drivers seat))**

<b>Code:</b>	<b>Designation:</b>	<b>Position:</b>
1	Reverse gear engaged, signal	16A
2	Circuit 15, status	15A
3	Displayed vehicle speed, signal	8E
3	Displayed vehicle speed, signal	8D
3	Displayed vehicle speed, signal	16D

4	Outside mirror adjustment switch, status	9H
5	Memory function switch, status	9K
6	Outside mirror adjustment, request	16J
7	Store passenger-side outside mirror park position, request	15J
8	Outside mirror actuator motor, actuation	21F
9	Potentiometer, signal	19G
CAN B	Interior CAN	7A
CAN B	Interior CAN	14J
CAN B	Interior CAN	14E
CAN B	Interior CAN	14A
CAN HMI	User interface CAN	7E
CAN HMI2	User interface CAN 2	7F
Code 545	Connect 5 (NTG6)	2D
Code 547	Connect 20 Entry (NTG6)	2E
Code 548	Connect 20 MID (NTG6)	2E
Code 549	Connect 20 HIGH (NTG6)	2F
LIN	Local Interconnect Network	7K
LIN	Local Interconnect Network	7J
M21/2	Right outside mirror	22H
N133/1	Instrument cluster control unit	2F
N166	Head unit/instrument cluster control unit	2D
N69/1	Left front door control unit	10K
N69/2	Right front door control unit	17G
N73	Electronic ignition switch control unit	2B
N73	Electronic ignition switch control unit	10E
S20	Driver-side power window and outside mirror adjustment switch group	4J
S22	Left front seat adjustment switch group	4K
U1141	Valid except model 213, 238, 257, 290	5D
U1235	Valid for model 213, 238, 257, 290	5E







**Function Schematic, Move Mirror Glass Of Outside Mirror To Parking Position - PE88.79-P-2504A**

**Model 118, 177, 243, 247 with code 275 (Memory Package (driver's seat, steering column and mirror))**

**Model 213, 238, 257, 290 as of model year 2021 with code 275 (Memory Package (driver's seat, steering column and mirror))**

Â	Function schematic, move mirror glass of outside mirror to parking position	Â	<a href="#">PE88.79-P-2504-97A</a>
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