

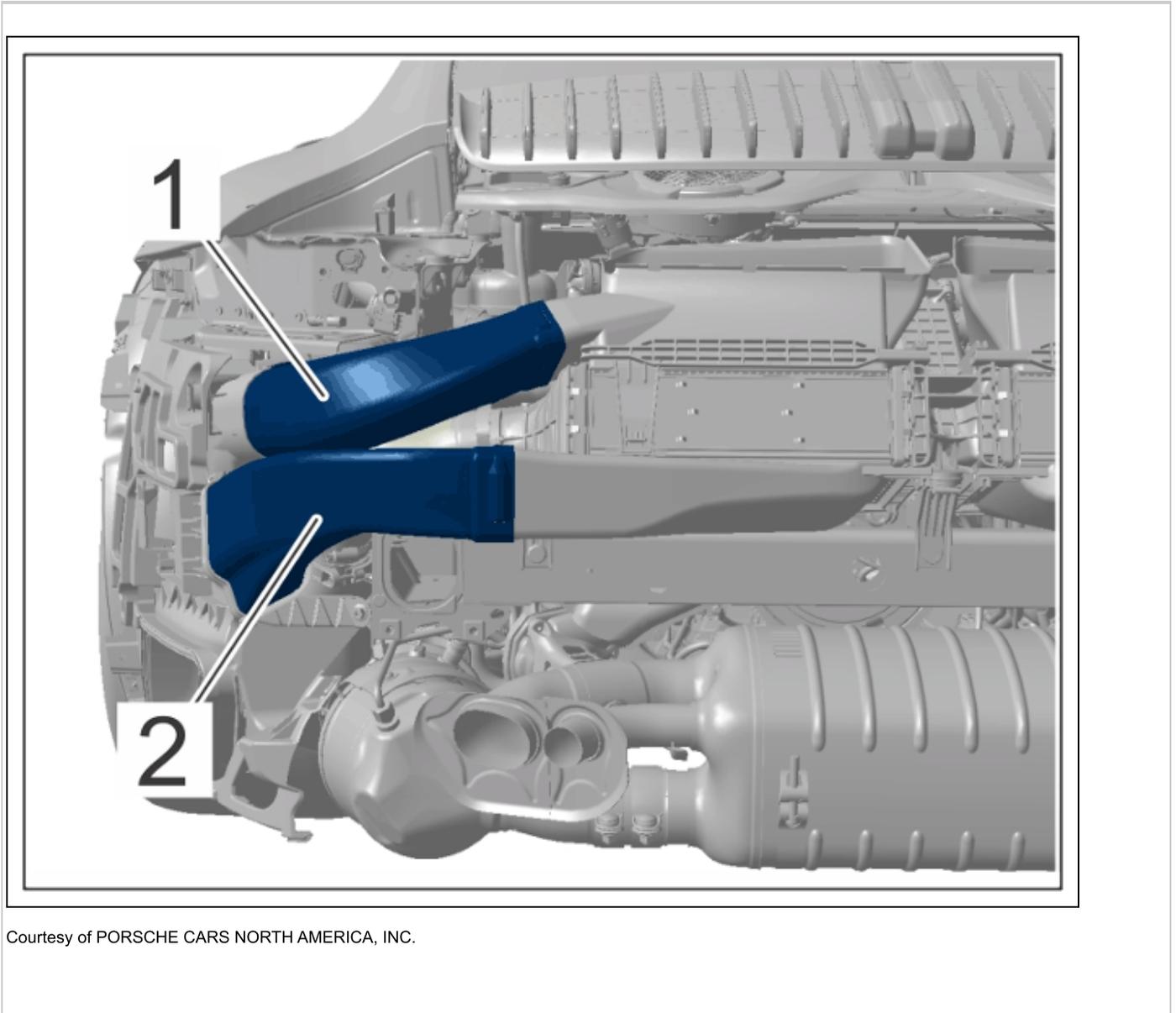
YMMS: 2020 Porsche 911 Carrera

Engine: 3.0L Eng

VIN:

## Finishing Work On Moulded Hose On Charge-Air Cooler

1. Installing air guides -1- and -2- .



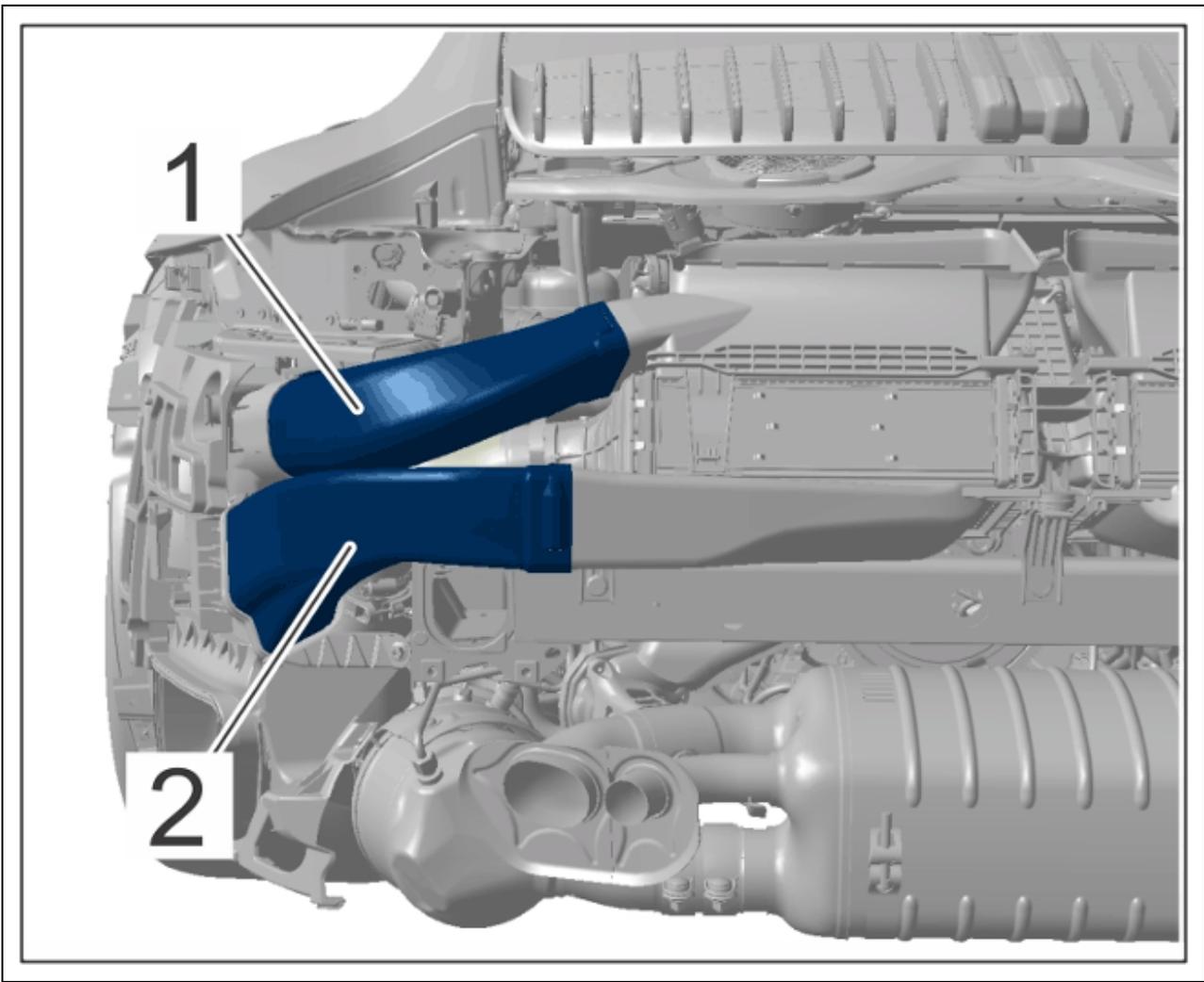
Courtesy of PORSCHE CARS NORTH AMERICA, INC.

Charge-air cooler air guides

2. Install rear apron.  
635519 REMOVING AND INSTALLING REAR APRON

## Preliminary Work On Moulded Hose On Charge-Air Cooler

1. Remove rear apron.  
635519 REMOVING AND INSTALLING REAR APRON
2. Remove air guides -1- and -2- .



Courtesy of PORSCHE CARS NORTH AMERICA, INC.

Charge-air cooler air guides

## WM, 214319 REMOVING AND INSTALLING CHARGE-AIR COOLER

### TECHNICAL VALUES

Location	Description	Type	Basic value	Tolerance 1	Tolerance 2
Pressure hose to charge-air cooler	Screw-type clamp	Tightening torque	5.5 Nm (4 ftlb.)	+/- 0.5 Nm (0.3 ftlb.)	
Charge-air cooler to body	Screw, M6 x 35 - replace screw	Tightening torque	10 Nm (7.5 ftlb.)		
Loudspeakers for exterior acoustics to charge-air cooler	Oval-head screw, 5 x 20	Tightening torque	2 Nm (1.5 ftlb.)	+ 0.2 Nm (0.1 ftlb.)	
Screw-type clamp on air scoop for throttle valve		Tightening torque	5.5 Nm (4.1 ftlb.)	+/- 0.5 Nm (0.4 ftlb.)	

### PRELIMINARY WORK

1. Remove rear spoiler.

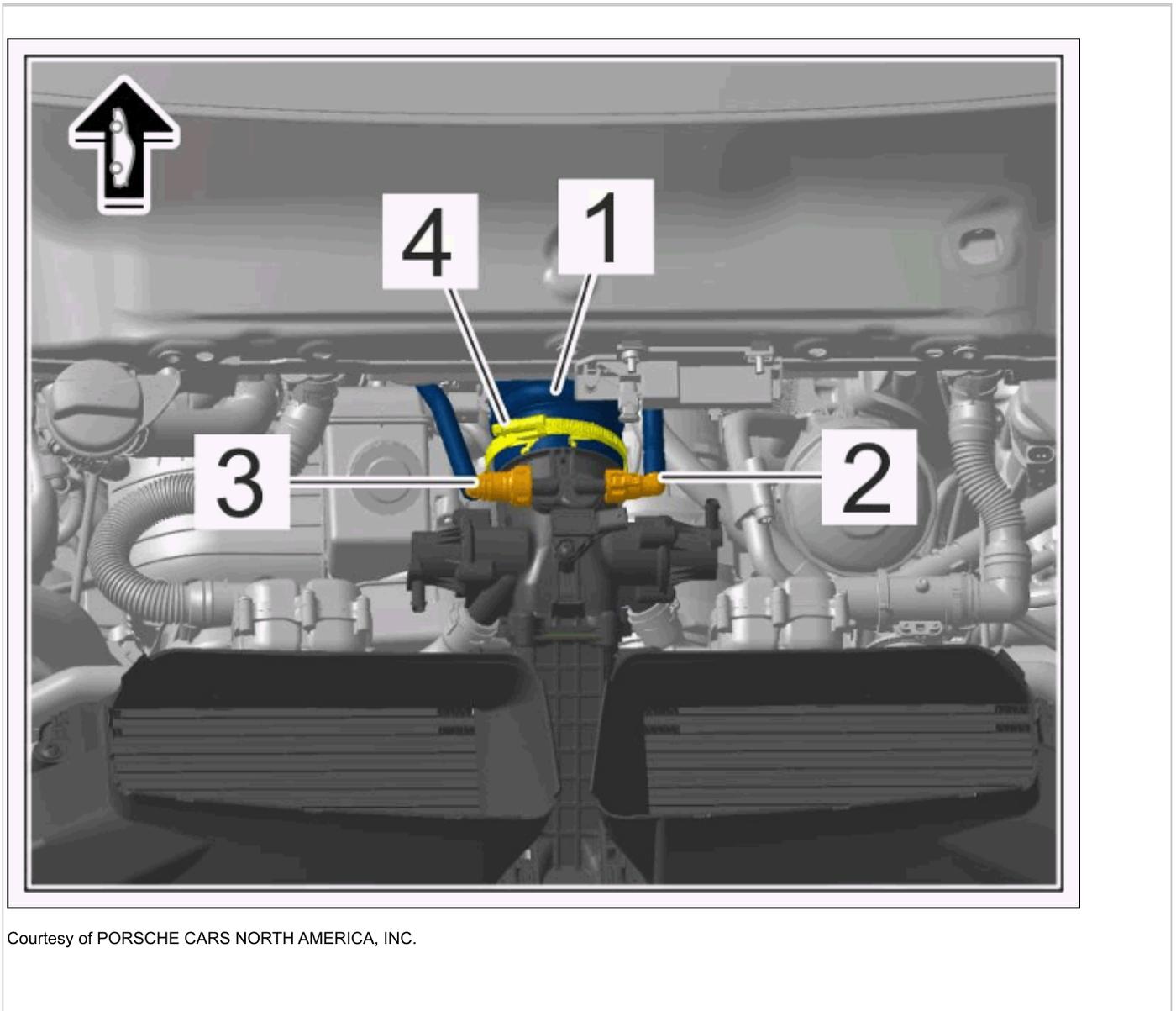
66581900 REMOVING AND INSTALLING REAR SPOILER

2. Remove engine-compartment blower.  
198119 REMOVING AND INSTALLING ENGINE-COMPARTMENT BLOWER

3. Remove bumper.  
635019 REMOVING AND INSTALLING REAR BUMPER

### REMOVING CHARGE AIR COOLER

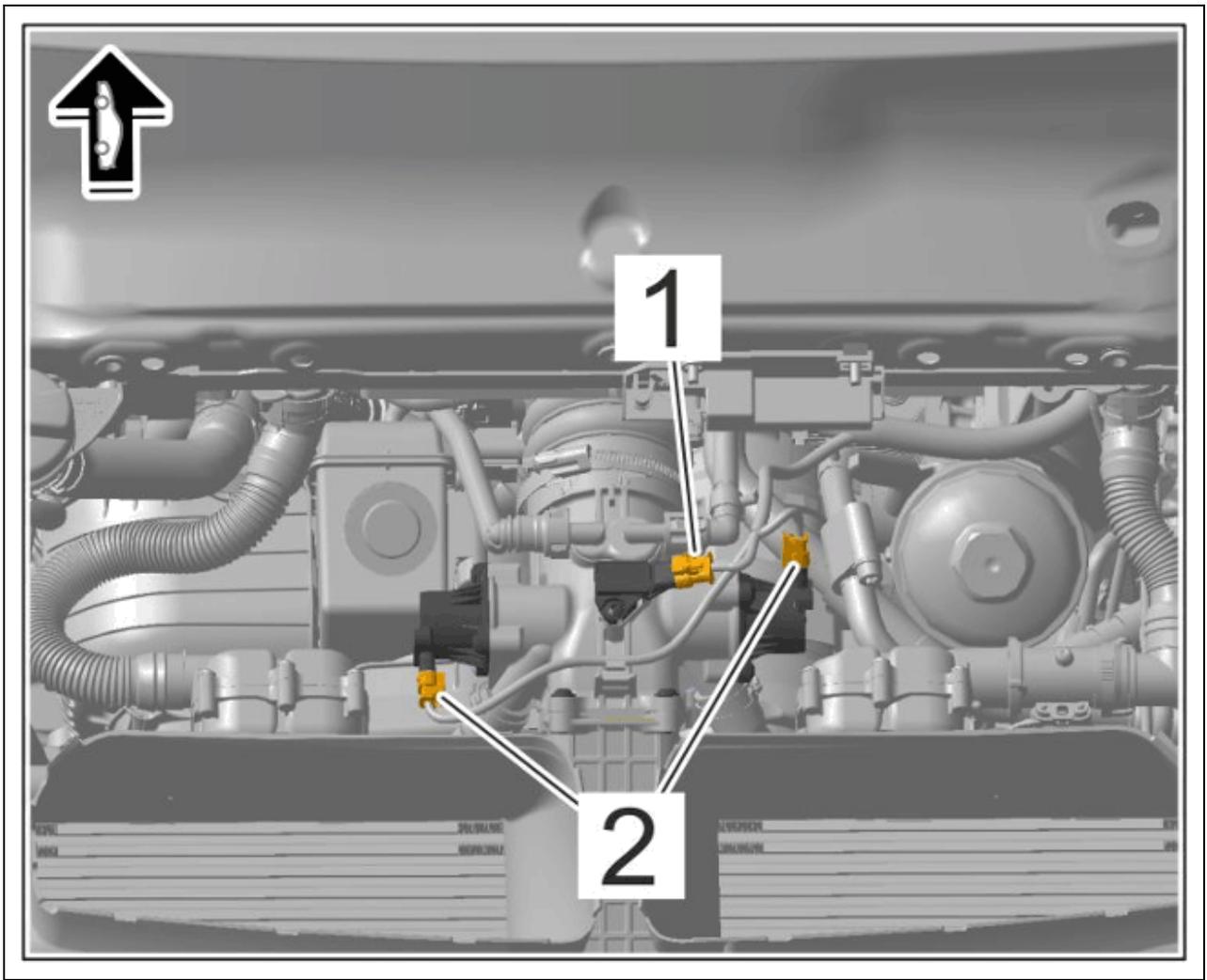
1. Loosen air scoop for throttle valve **-1-** , line for positive crankcase ventilation **-2-** and vacuum line **-3-** .  
Loosen screw-type clamp **-4-** and pull air scoop for throttle valve **-1-** off the charge-air cooler.  
Release and disconnect positive crankcase ventilation line **-2-** .  
Release and disconnect vacuum line **-3-** .



Courtesy of PORSCHE CARS NORTH AMERICA, INC.

Air box for throttle valve on charge-air cooler

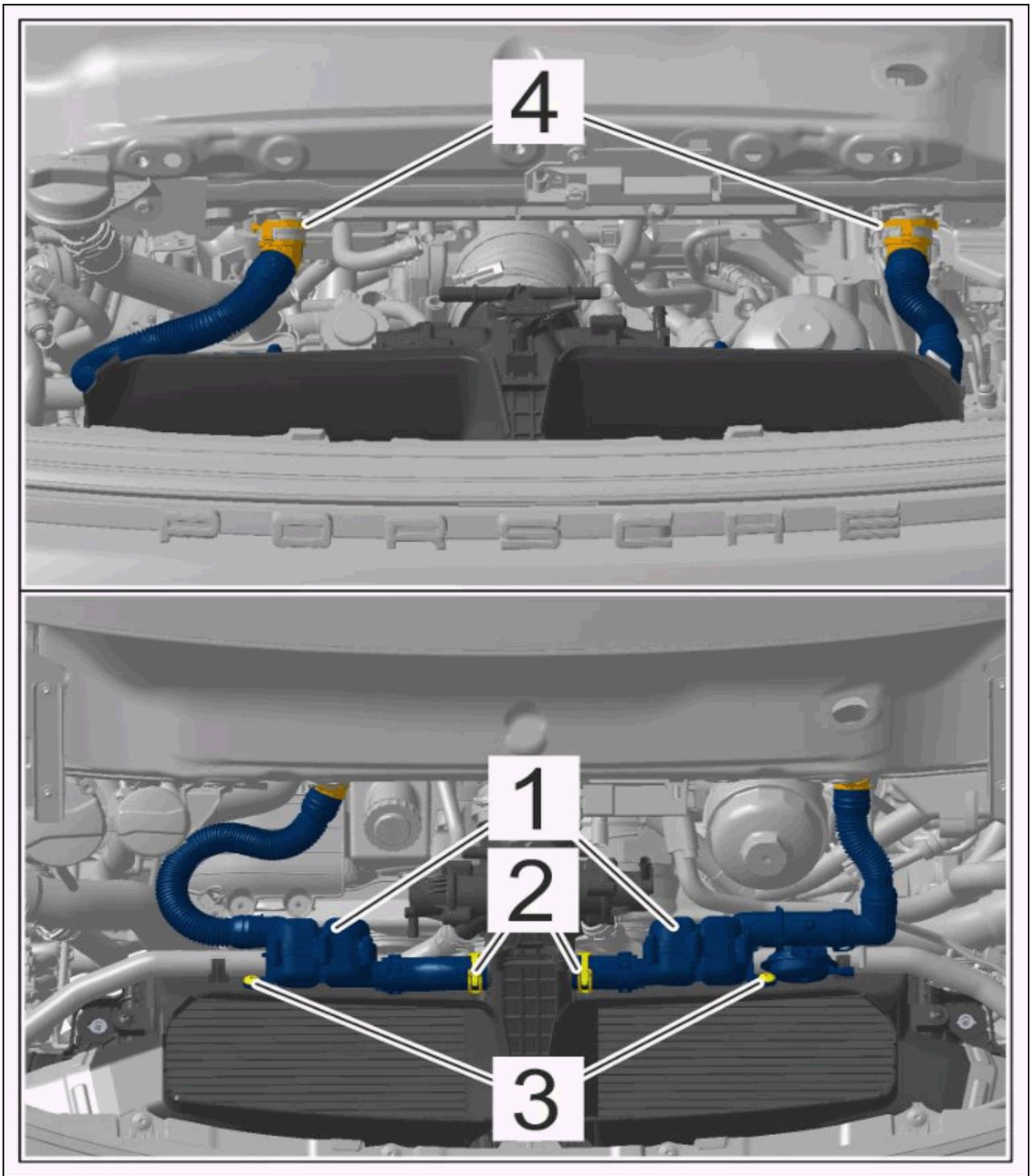
2. Release and disconnect cable plugs for boost pressure sensor **-1-** and recirculating air valves **-2-** .



Courtesy of PORSCHE CARS NORTH AMERICA, INC.

Cable plugs for boost pressure sensor and ambient air valves

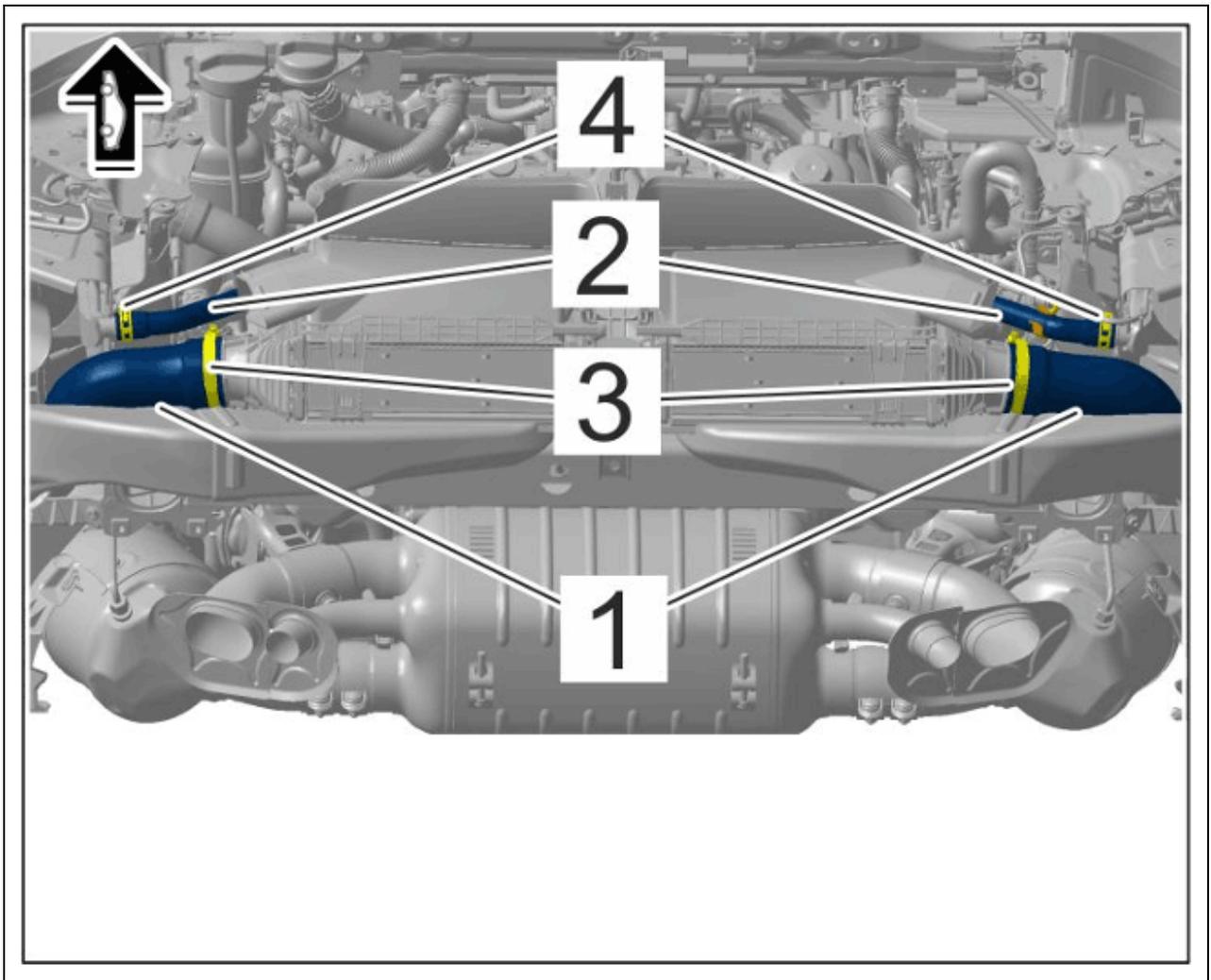
3. Remove **-1-** loudspeakers for exterior acoustics.  
Loosen spring band clamps **-2-** and pull off lines.  
Remove screws **-3-**  
Release and disconnect plug connection **-4-** on the body.  
Remove **-1-** Loudspeakers for exterior acoustics.



Courtesy of PORSCHE CARS NORTH AMERICA, INC.

#### Loudspeakers for exterior acoustics

4. Disconnect pressure hose -1- and recirculating air hose -2- at the charge-air cooler.  
Loosen screw-type clamps -3- and pull off pressure hose -1- .  
Loosen spring band clamps -4- and pull off recirculating air hose -2- .



Courtesy of PORSCHE CARS NORTH AMERICA, INC.

Pressure hose and recirculating air line

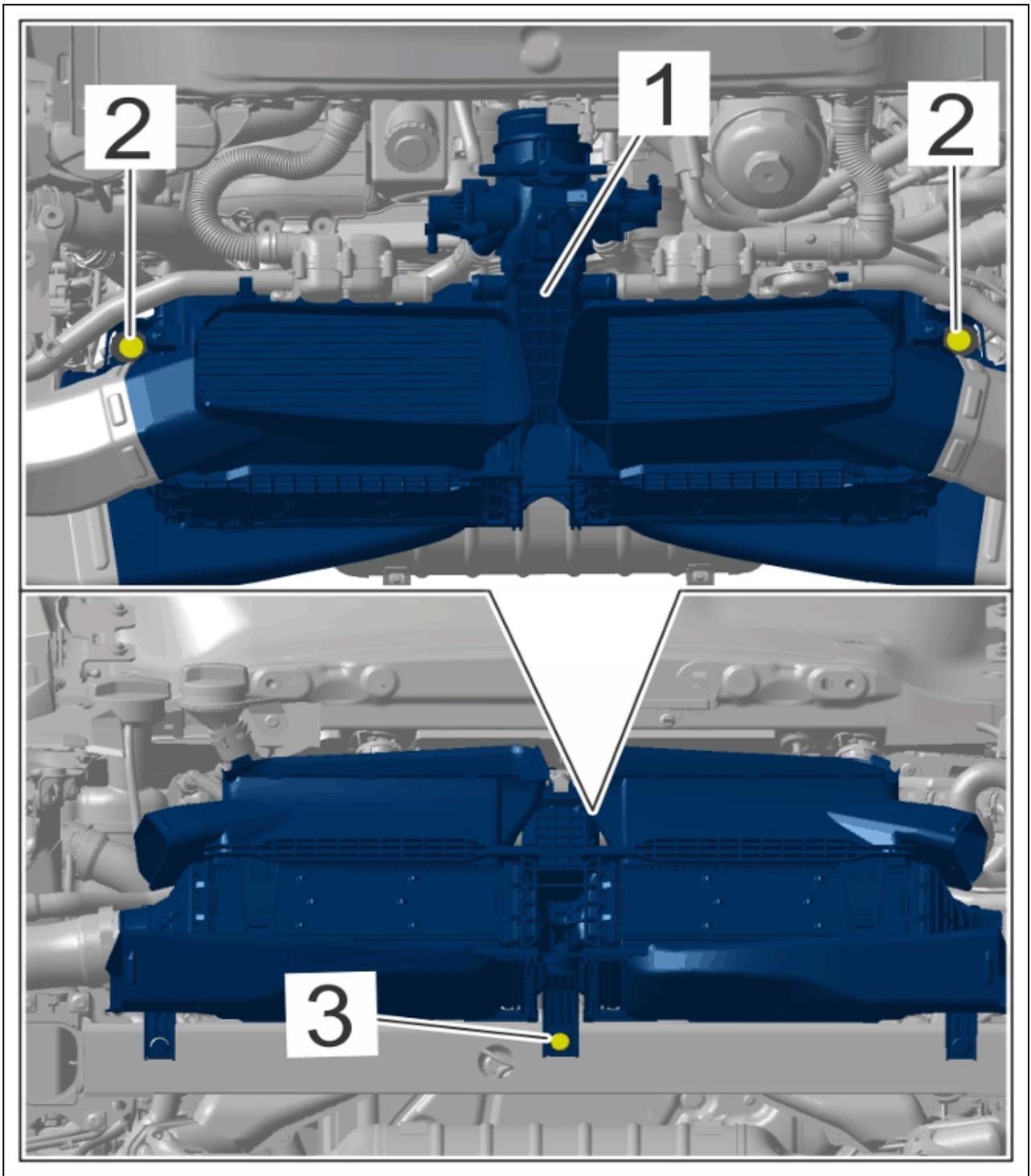
5. Detach charge air cooler **-1-** .

Unscrew screws **-2-** .

**Replace screws during installation.**

Drill out head of support sleeve **-3-** using a drill bit (approx. 10 mm in diameter) and push support sleeve **-3-** forwards through the bracket.

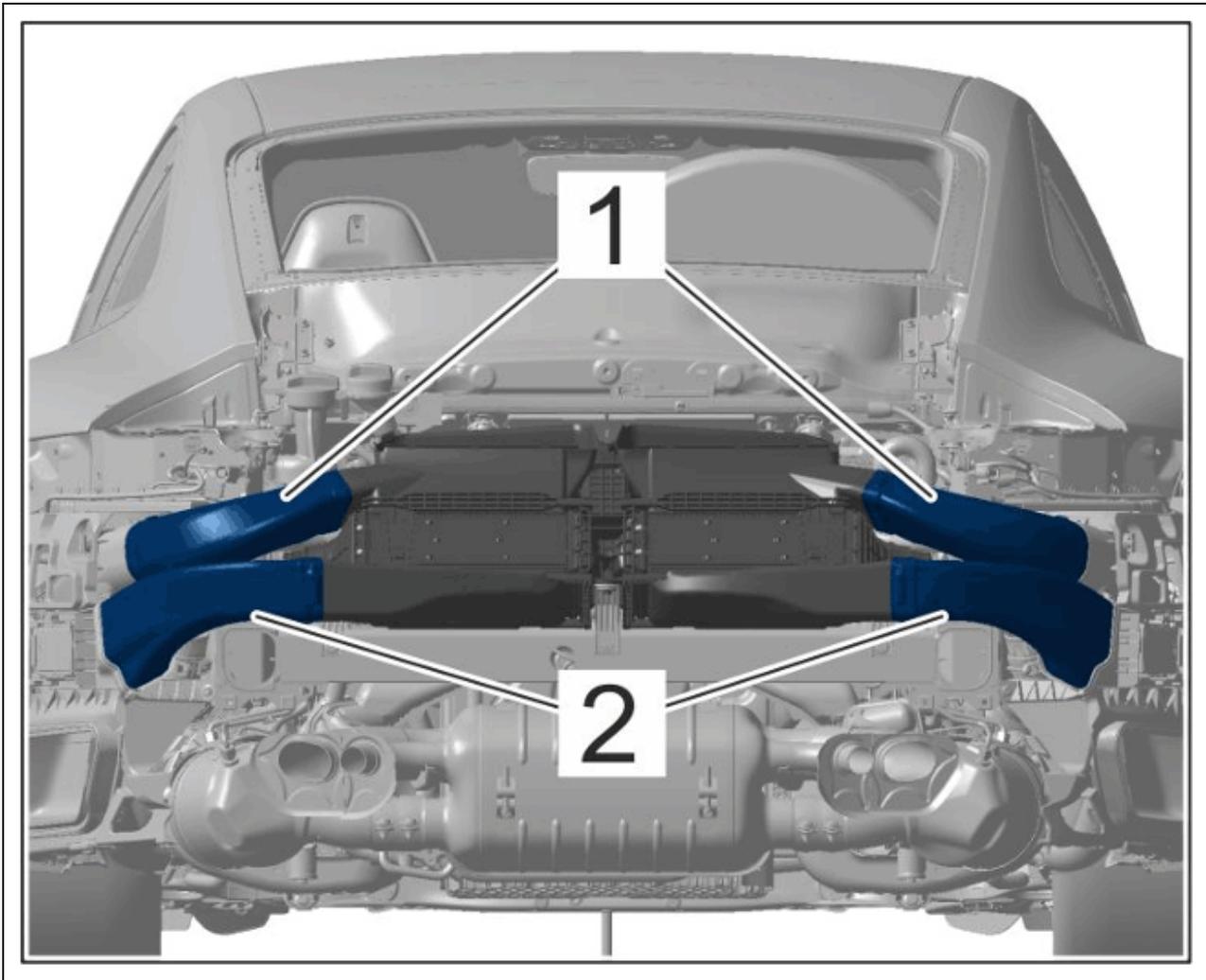
Remove charge-air cooler **-1-** .



Courtesy of PORSCHE CARS NORTH AMERICA, INC.

Charge air cooler

6. Remove air guides -1- and -2- .

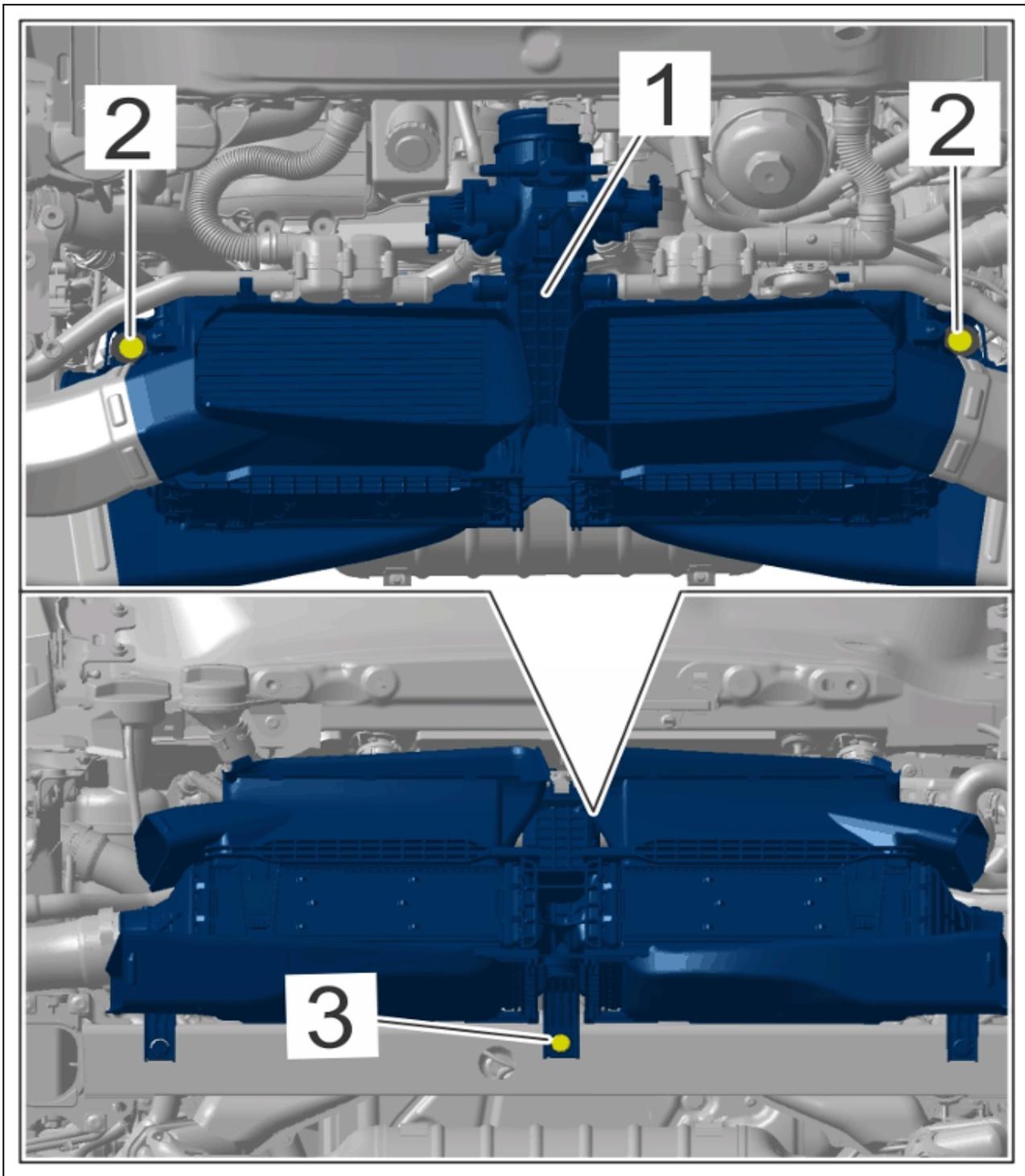


Courtesy of PORSCHE CARS NORTH AMERICA, INC.

Air guides

## INSTALLING CHARGE AIR COOLER

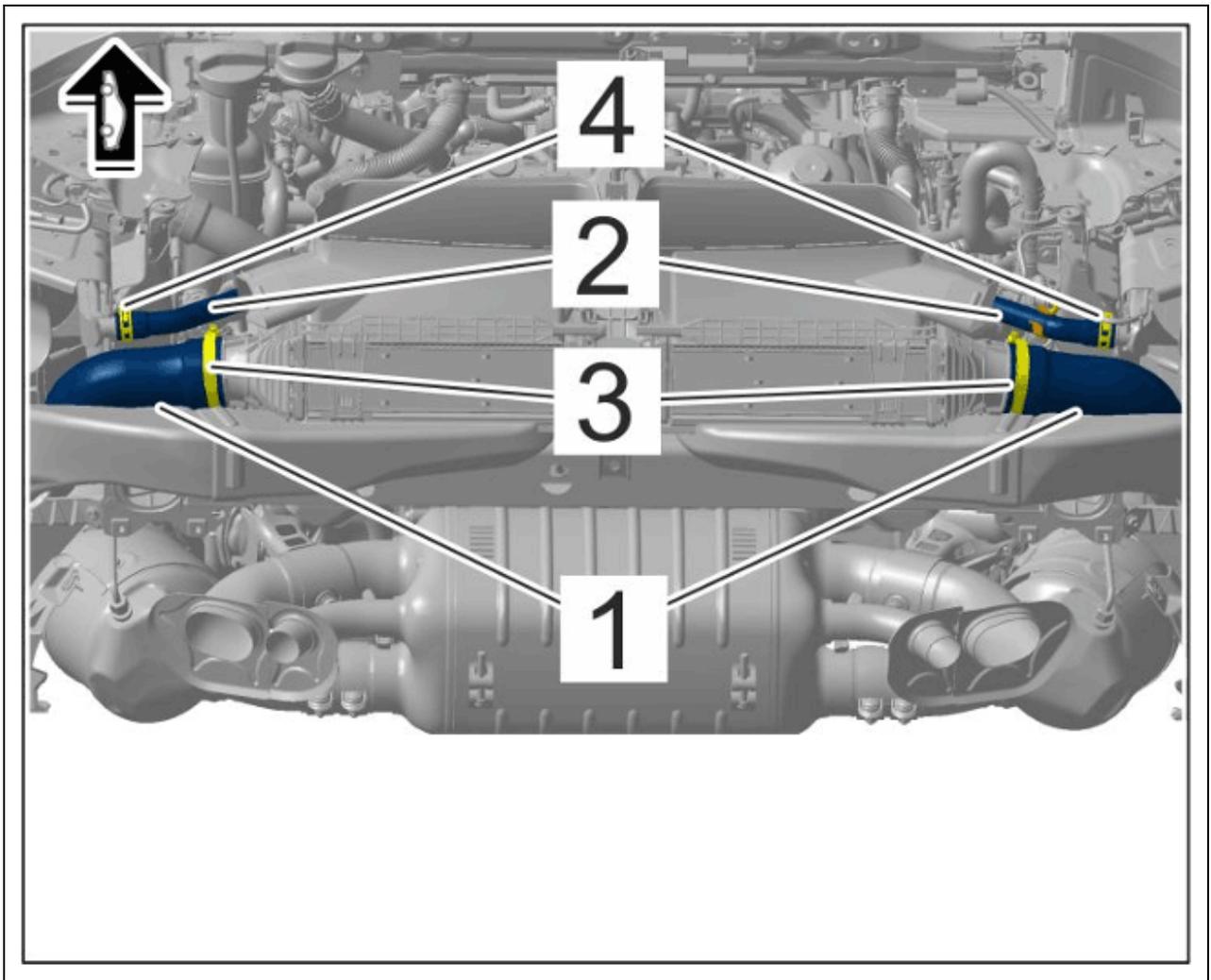
1. Install air guides.
2. Position and secure charge-air cooler **-1-** .  
Insert **new** pin **-3-** into the support sleeve and lock support panel.  
Fit and tighten new screws **-2-** .  
> **Tightening torque 10 Nm (7.5 ftlb.)**



Courtesy of PORSCHE CARS NORTH AMERICA, INC.

### Charge air cooler

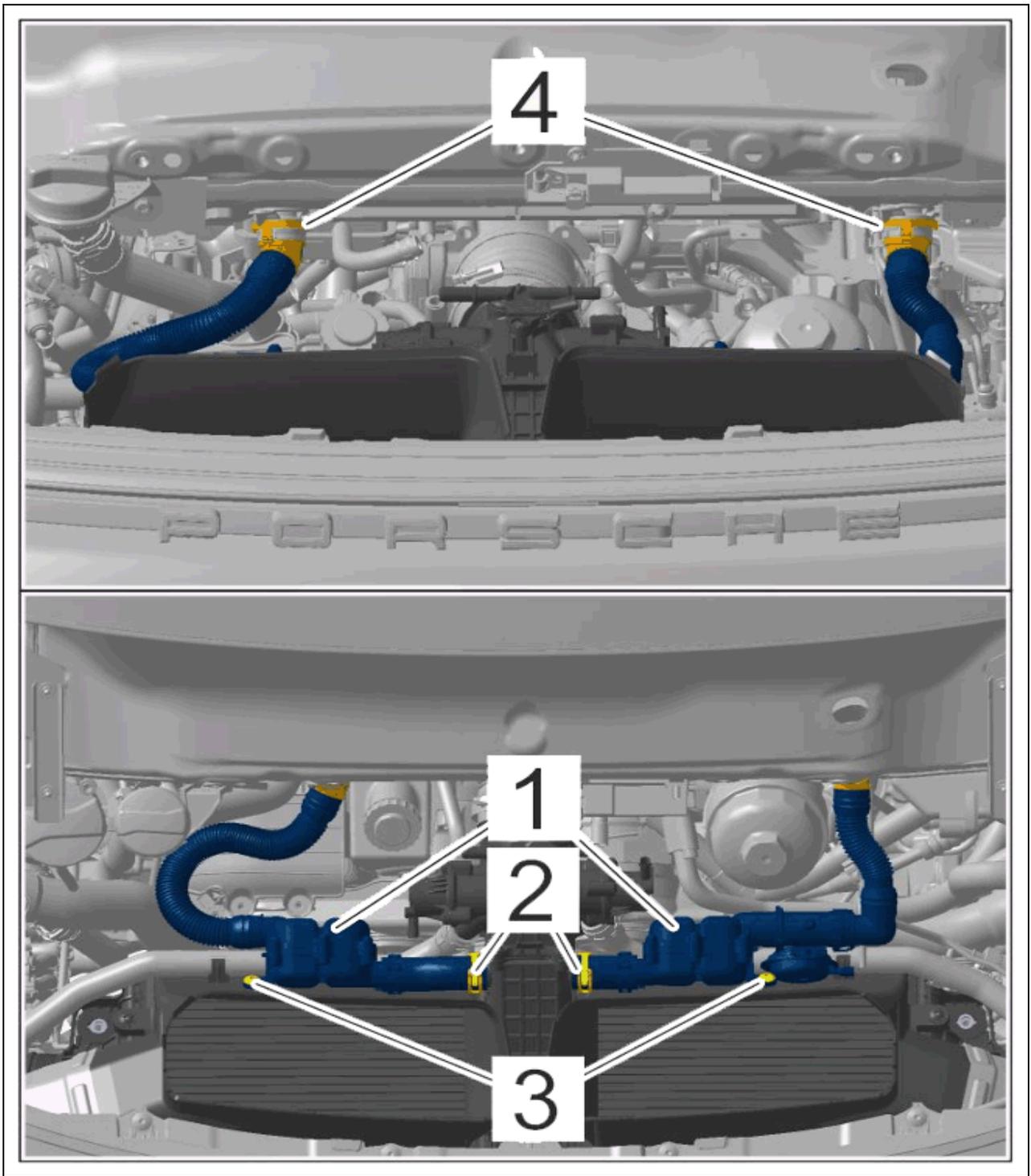
3. Install pressure hose -1- and recirculating air hose -2- .  
**Coat hoses with Klubergel Plus for assembly.**  
Tighten screw-type clamps -3- .  
> **Tightening torque 5.5 Nm (4 ftlb.) +/- 0.5 Nm (0.3 ftlb.)**  
Secure recirculating air hose with a spring band clamp -4- .



Courtesy of PORSCHE CARS NORTH AMERICA, INC.

Pressure hose and recirculating air line

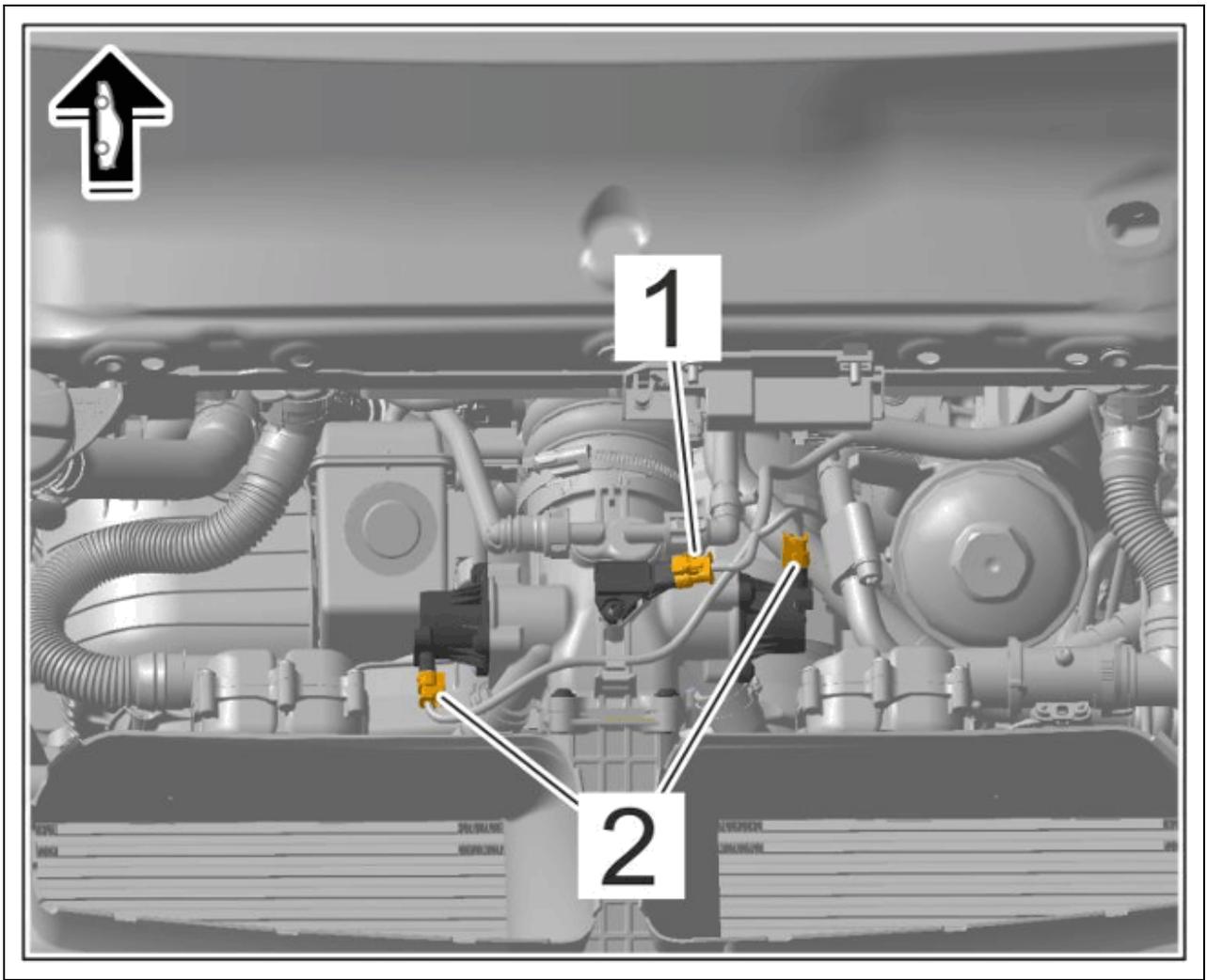
4. Install loudspeakers for exterior acoustics -1- .  
Connect hoses and tighten spring band clamps -2- .  
Fit and tighten screws -3- .  
> **Tightening torque 2 Nm (1.5 ftlb.) + 0.2 Nm (0.1 ftlb.)**  
Connect plug connection -4- to the body and check that it is fitted securely.



Courtesy of PORSCHE CARS NORTH AMERICA, INC.

Loudspeakers for exterior acoustics

5. Connect cable plugs for boost pressure sensor -1- and recirculating air valves -2- and check that they are fitted securely.



Courtesy of PORSCHE CARS NORTH AMERICA, INC.

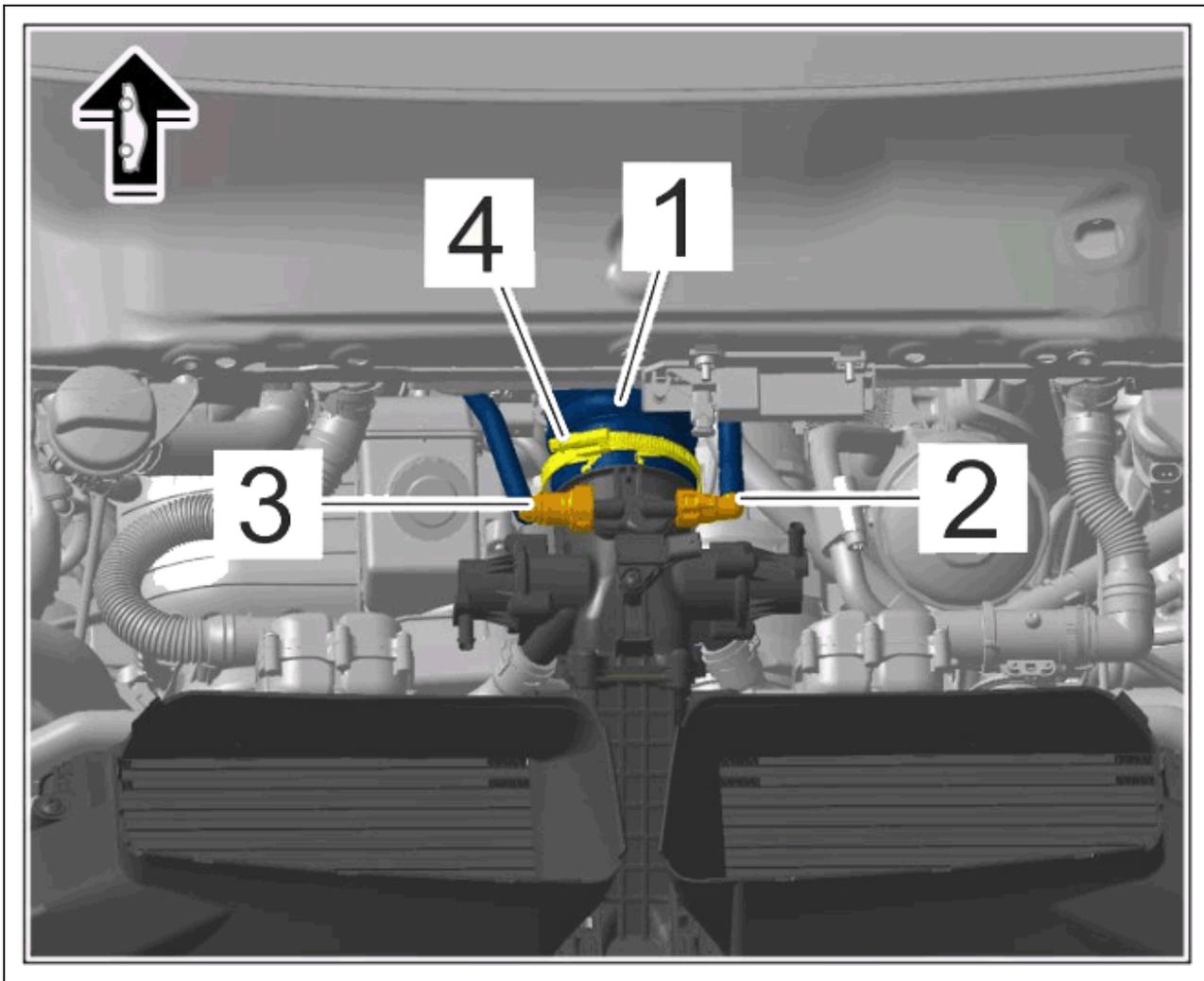
Cable plugs for boost pressure sensor and ambient air valves

6. Secure air box for throttle valve **-1-** and connect positive crankcase ventilation line **-2-** and vacuum line **-3-** .  
Secure air box for throttle valve **-1-** on the charge-air cooler with a screw-type clamp **-4-** .

**> Tightening torque 5.5 Nm (4.1 ftlb.) +/- 0.5 Nm (0.4 ftlb.)**

Connect positive crankcase ventilation line **-2-** and check that it is fitted securely.

Connect vacuum line **-3-** and check that it is fitted securely.



Courtesy of PORSCHE CARS NORTH AMERICA, INC.

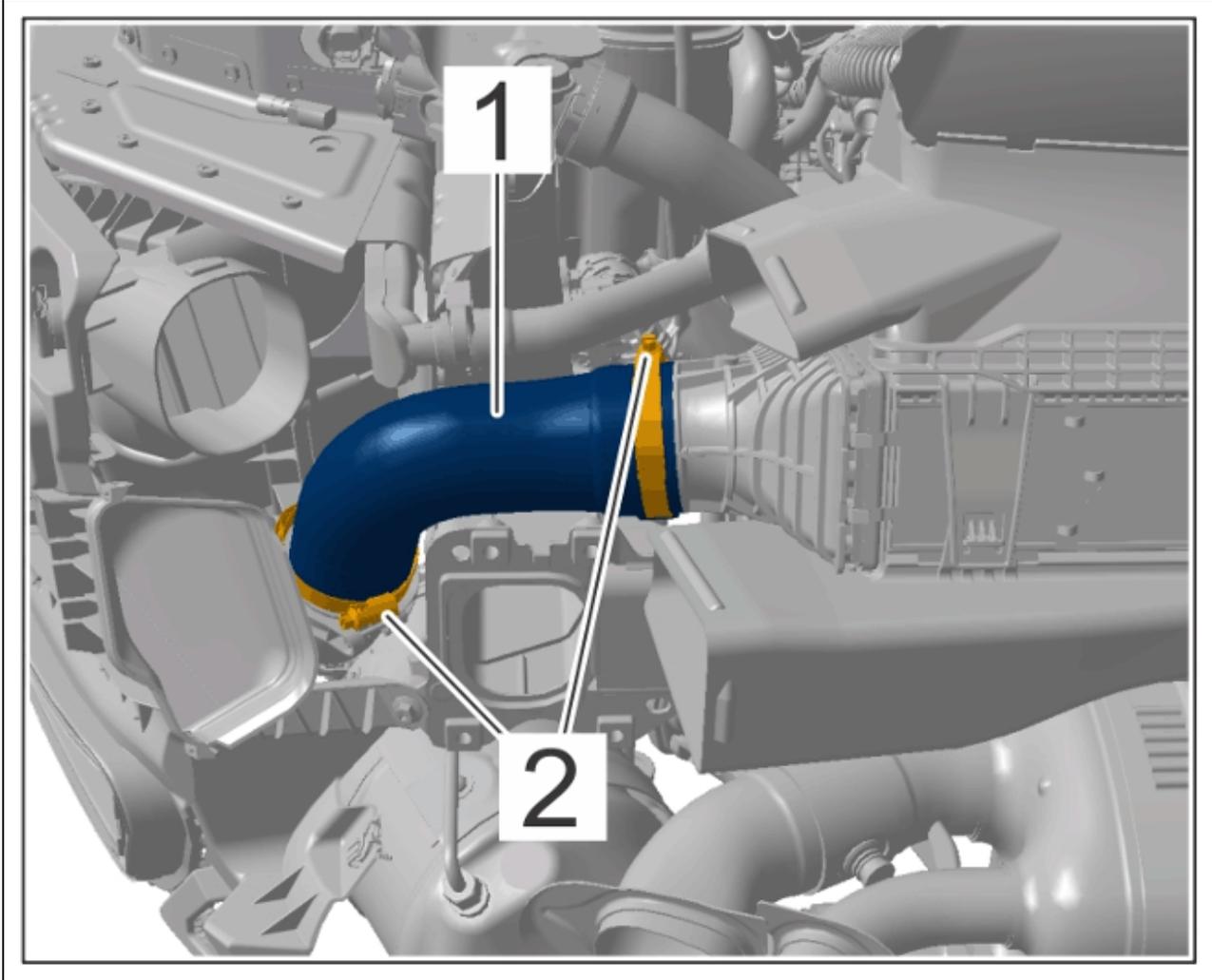
Air box for throttle valve on charge-air cooler

### **SUBSEQUENT WORK**

1. Install bumper.  
635019 REMOVING AND INSTALLING REAR BUMPER
2. Install engine-compartment blower.  
198119 REMOVING AND INSTALLING ENGINE-COMPARTMENT BLOWER
3. Install rear spoiler.  
66581900 REMOVING AND INSTALLING REAR SPOILER

### **Remove Moulded Hose From Charge-Air Cooler**

1. Remove moulded hose -1- .  
Undo screw-type clamps -2- and remove moulded hose -1- .

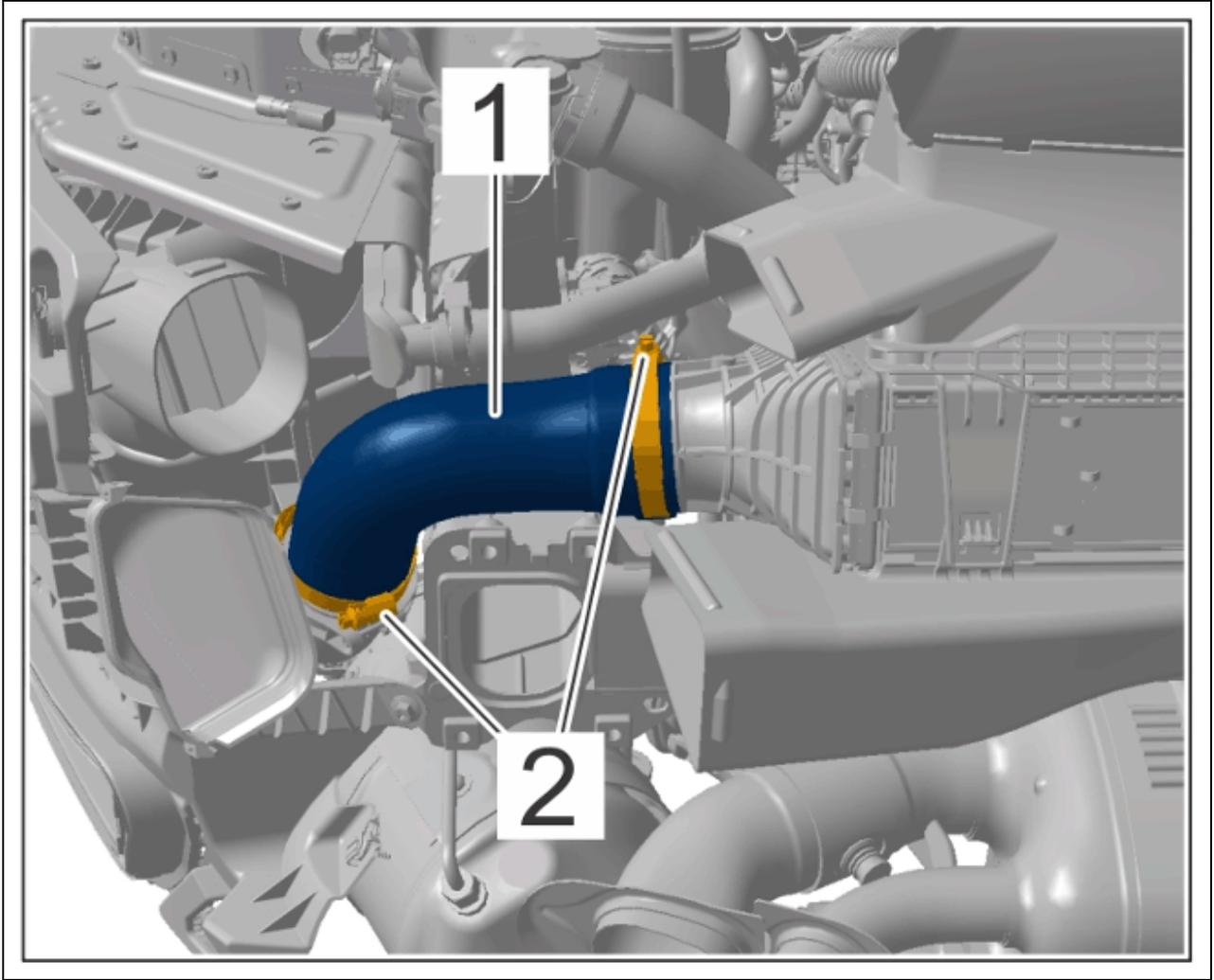


Courtesy of PORSCHE CARS NORTH AMERICA, INC.

Moulded hose on charge-air cooler

### Install Moulded Hose On Charge-Air Cooler

1. Installing **-1-** moulded hose.  
Coat inside of moulded hose with Klüberplus gel.  
Tightening torque for screw-type clamps **-2-** :  
> **Tightening torque 5.5 Nm (4 ftlb.) +/- 0.5 Nm (0.3 ftlb.)**



Courtesy of PORSCHE CARS NORTH AMERICA, INC.

Moulded hose on charge-air cooler

YMMS: 2020 Porsche 911 Carrera

Engine: 3.0L Eng

VIN:

Aug 1, 2023

License:

Odometer:

## WM, 198119 REMOVING AND INSTALLING ENGINE-COMPARTMENT BLOWER

### PRELIMINARY WORK

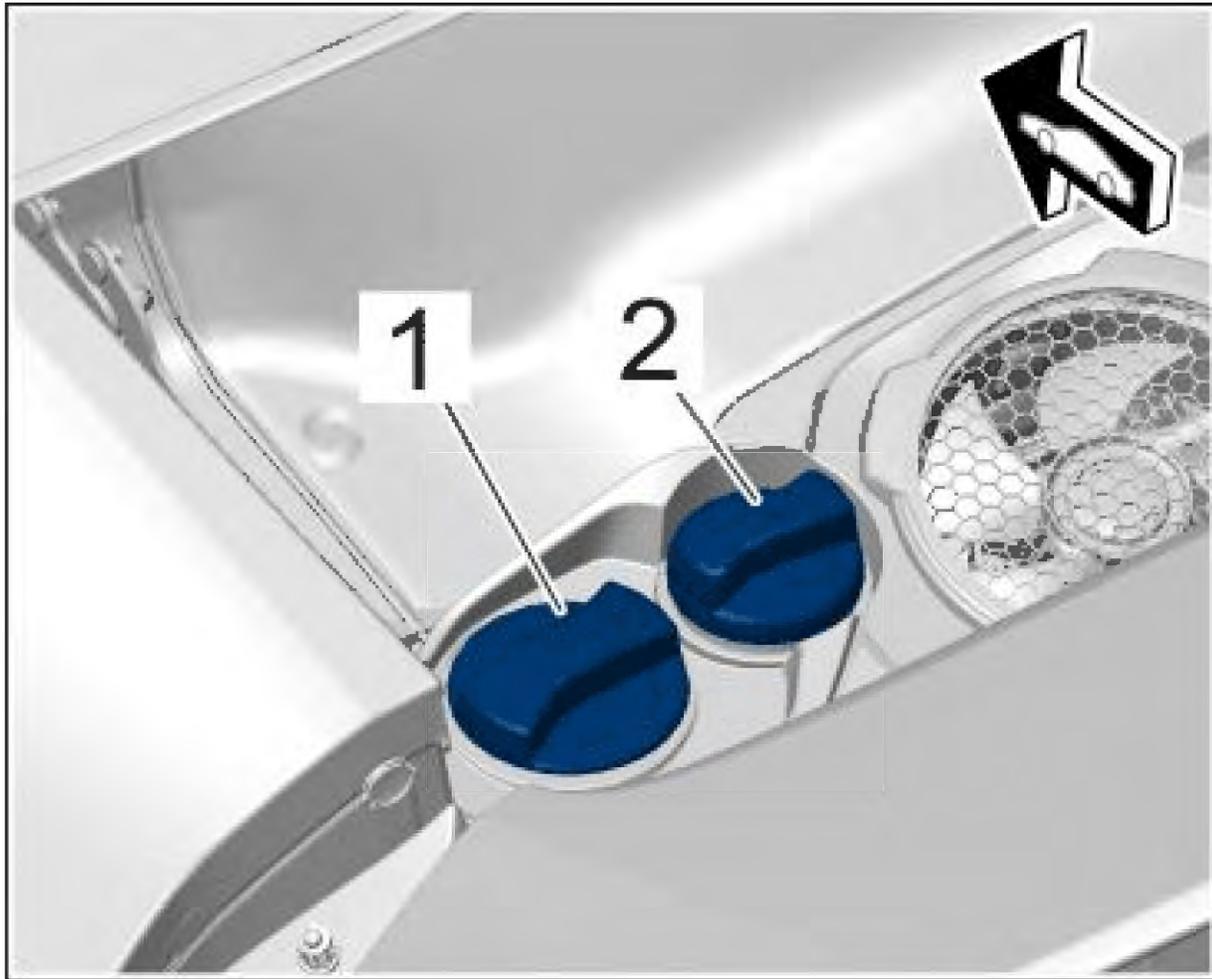
1. Open the engine cover and extend rear spoiler.
2. **Cabriolet vehicles:** Move convertible top into service position.  
Refer to the appropriate service information.

### REMOVING ENGINE-COMPARTMENT BLOWER

**WARNING:** *Moving components*

- *Danger of limbs being trapped or severed*
  - *Do not reach into the danger area.*
  - *Secure the system to prevent it from being activated accidentally.*
  - *Keep third parties away from the danger area.*

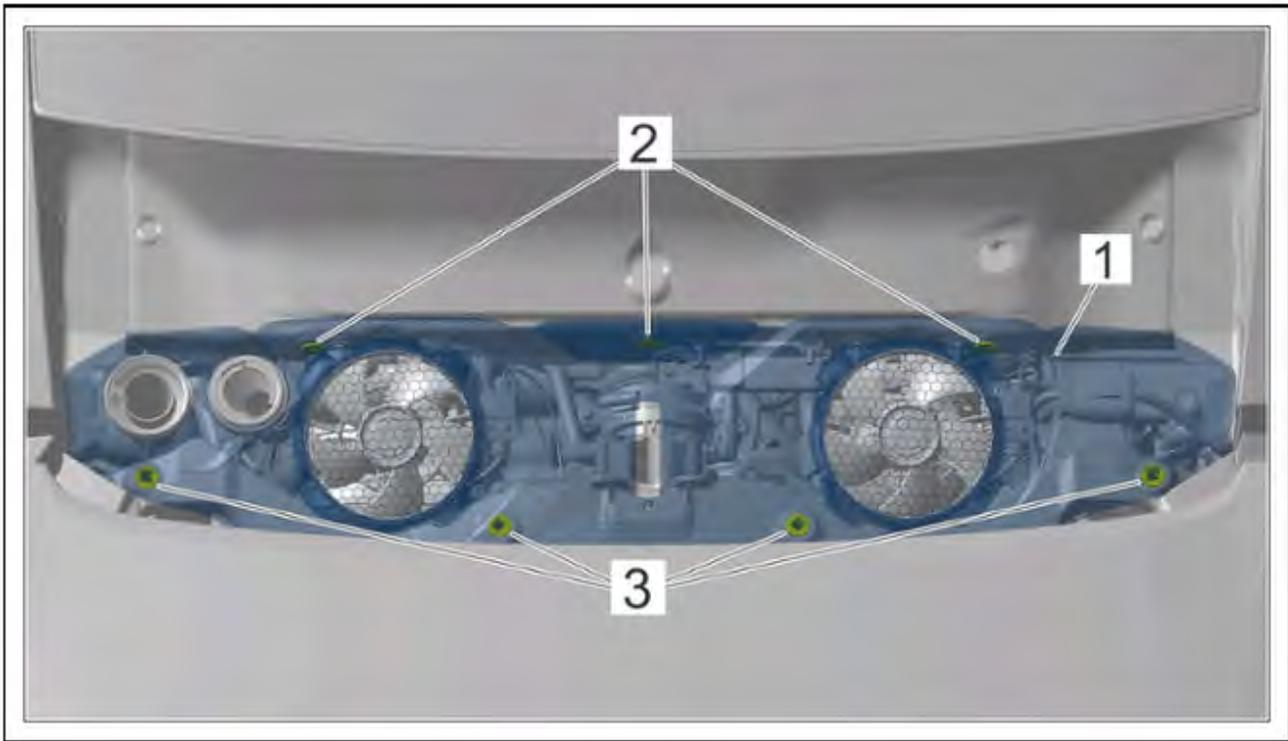
1. Unscrew cap on coolant reservoir -1 and oil filler neck -2- .



Courtesy of PORSCHE CARS NORTH AMERICA, INC.

Cover on oil filler neck and coolant

2. Carefully remove cover **-1-** on engine-compartment blower.  
Carefully unclip cover from the rubber sleeves at the front **-2-** and rear **-3-** .



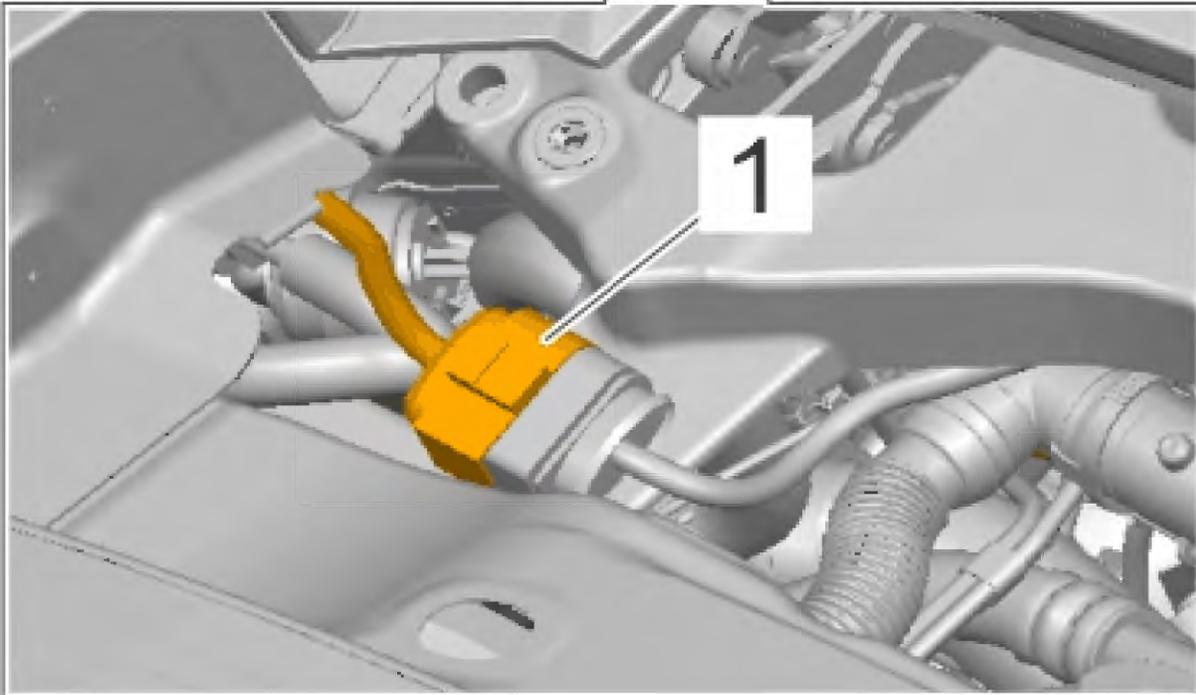
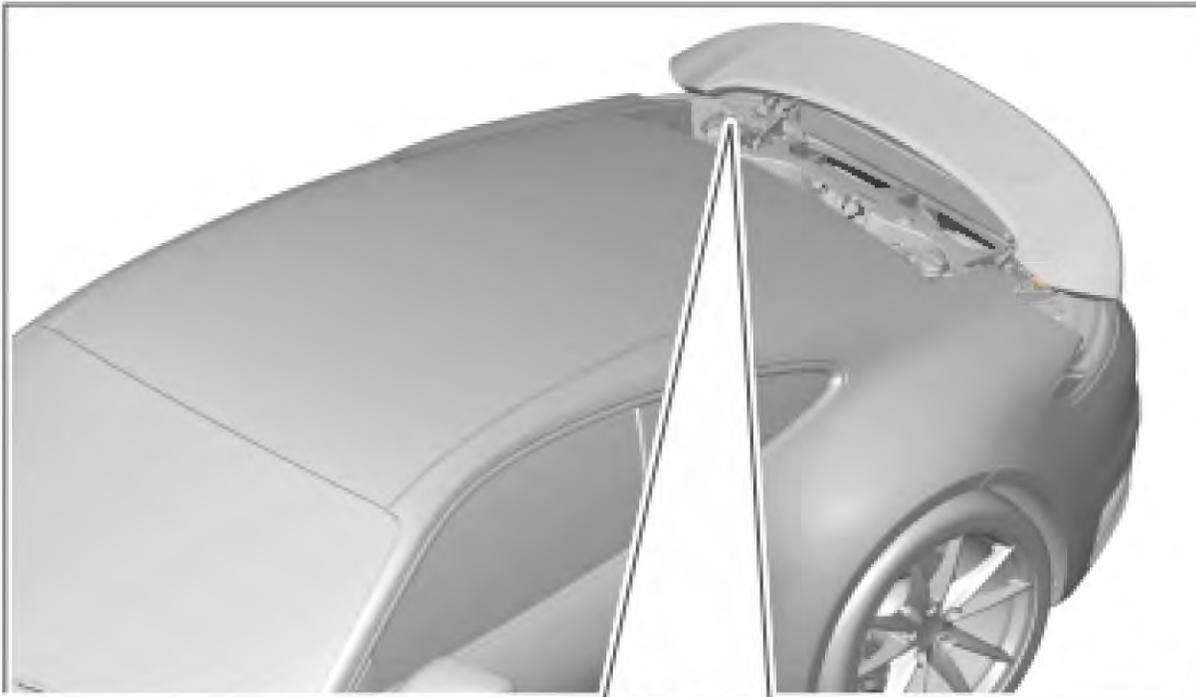
Courtesy of PORSCHE CARS NORTH AMERICA, INC.

#### Engine-compartment blower cover

3. Tighten cap on the oil filler neck and coolant reservoir.

#### Information

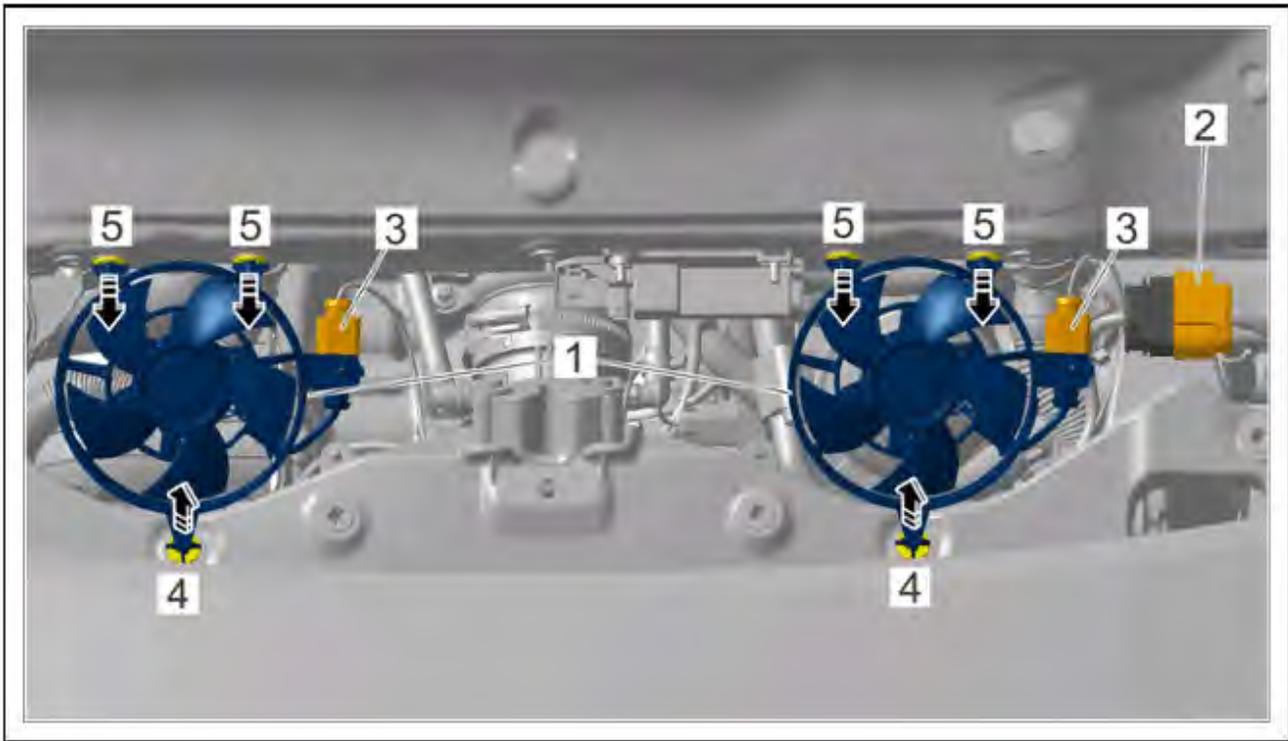
1. **Temperature changes can cause the engine-compartment blower to start up at any time (protection against overheating).**
  2. **Always disconnect the plug connection at the rear spoiler bracket before removal.**
4. Release and disconnect central connector -1- .



Courtesy of PORSCHE CARS NORTH AMERICA, INC.

#### Electric plug connection

5. Remove engine-compartment blower at the left and right **-1-** .  
Make sure that the central connector **-2-** is disconnected.  
Disconnect cable plug **-3-** for engine-compartment blower.  
Pull engine-compartment blower out of the rubber sleeves at the rear **-arrow 4-** first, then at the front **-arrows 5-** .  
Remove engine-compartment blower.



Courtesy of PORSCHE CARS NORTH AMERICA, INC.

Engine-compartment blower at the left and right

## INSTALLING ENGINE-COMPARTMENT BLOWER

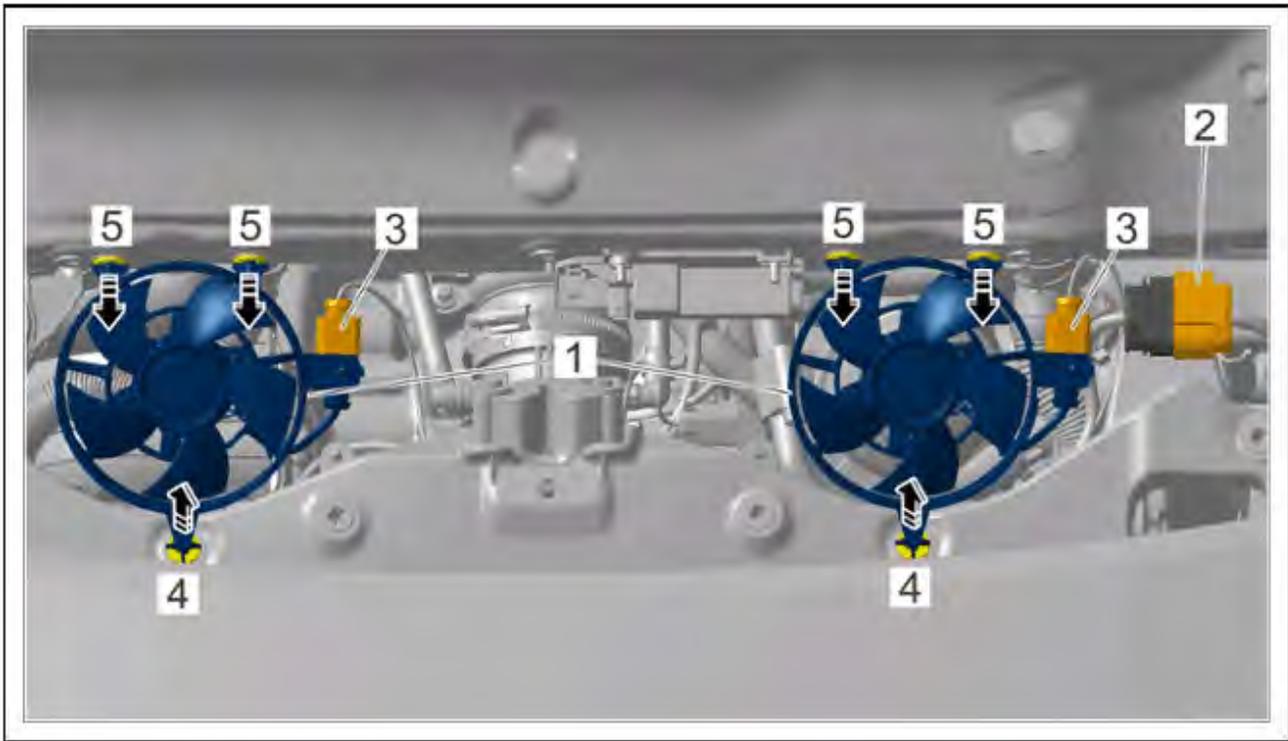
### **WARNING:** *Moving components*

- *Danger of limbs being trapped or severed*
  - *Do not reach into the danger area.*
  - *Secure the system to prevent it from being activated accidentally.*
  - *Keep third parties away from the danger area.*

### **Information**

Make sure that the rubber mountings are not crushed or damaged during installation.

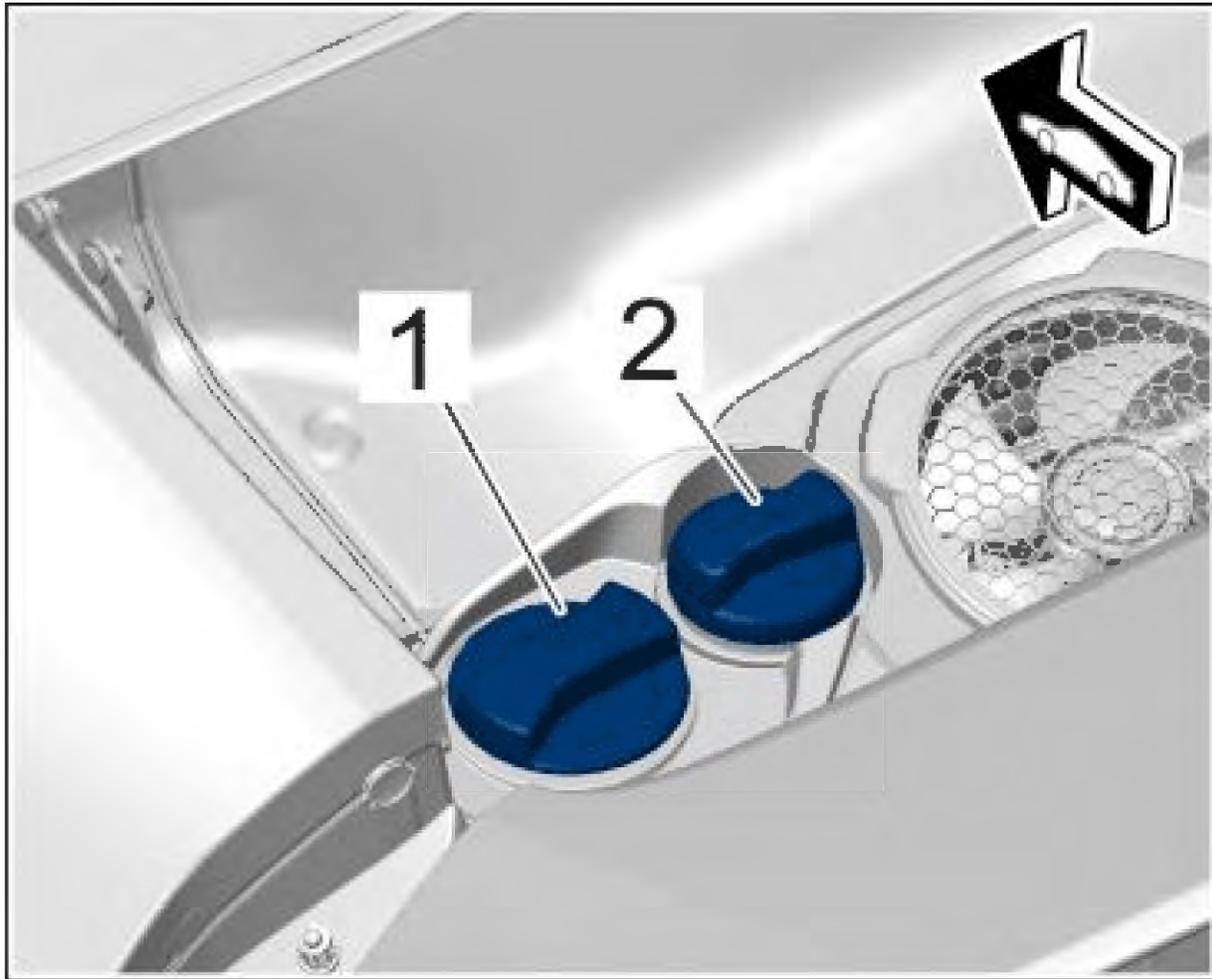
1. Coat rubber sleeves with assembly grease.
2. Install engine-compartment blower **-1-** at the left and right.  
Clip in engine-compartment blower at the front **-5-** rubber sleeves, then at the rear **-4-** .  
Connect cable plug **-3-** for engine-compartment blower.  
Connect central connector **-2-** .



Courtesy of PORSCHE CARS NORTH AMERICA, INC.

Engine-compartment blower at the left and right

3. Position cover on engine-compartment blower and clip it in.
4. Screw on cap on coolant reservoir **-1-** and oil filler neck **-2-** and check that it is seated securely.



Courtesy of PORSCHE CARS NORTH AMERICA, INC.

Cover on oil filler neck and coolant

### **SUBSEQUENT WORK**

1. **Cabriolet vehicles:** Close convertible top.  
Refer to the appropriate service information.
2. Retract rear spoiler and close the engine cover.

YMMS: 2020 Porsche 911 Carrera

Engine: 3.0L Eng

VIN:

Aug 2, 2023

License:

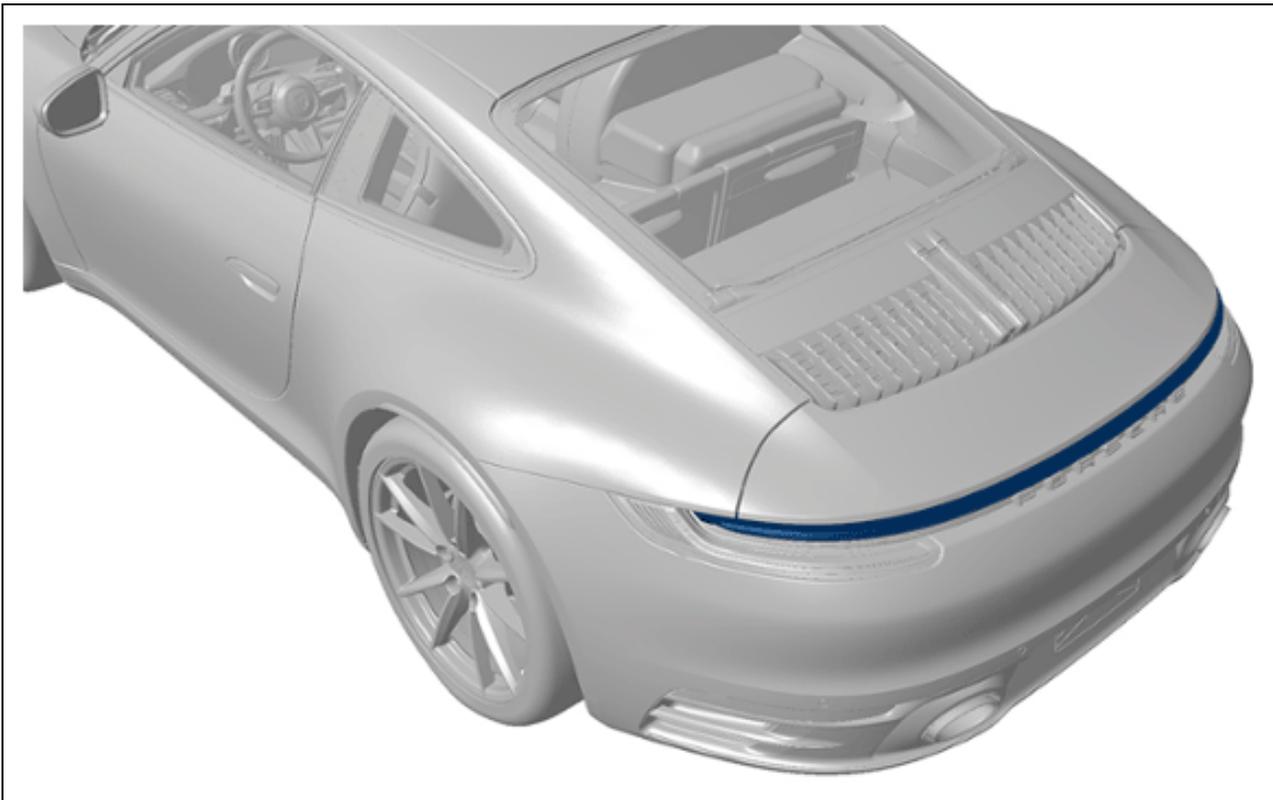
Odometer:

## WM, 943119 REMOVING AND INSTALLING CENTRE TAIL LIGHT

### TECHNICAL VALUES

Location	Description	Type	Basic value	Tolerance 1	Tolerance 2
Fastening screws securing centre tail light to body	Item 1	Tightening torque	6 Nm (4.5 ftlb.)		
Fastening screws securing centre tail light to body	Item 2	Tightening torque	6 Nm (4.5 ftlb.)		

### INSTALLATION INFORMATION



Courtesy of PORSCHE CARS NORTH AMERICA, INC.

Installation position

### PRELIMINARY WORK

Only for Turbo vehicles

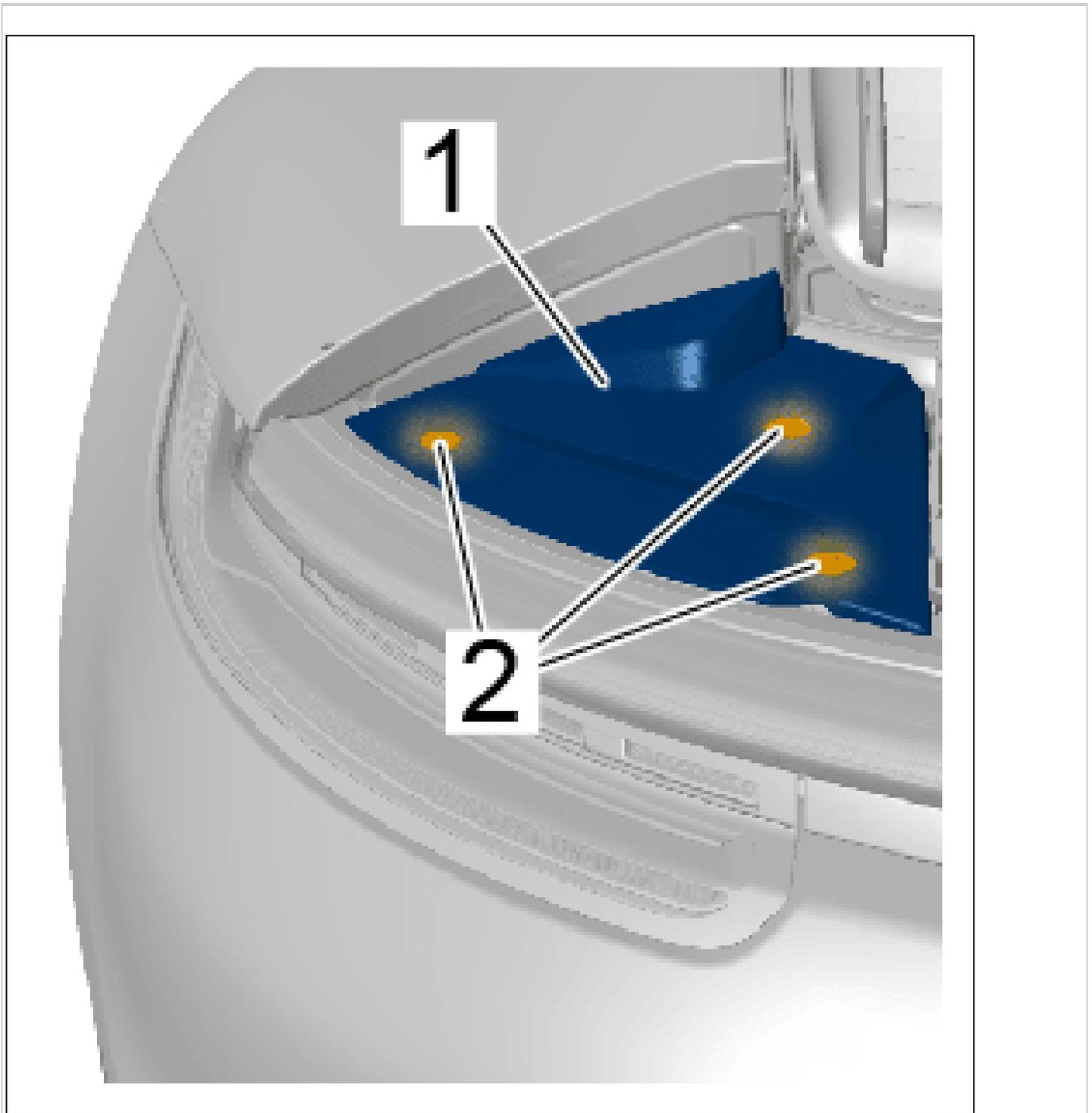
1. Remove (lower part of) rear spoiler.

> **WM, 66581905 REMOVING AND INSTALLING (LOWER PART OF) REAR SPOILER - information on "Removing"**

Not for Turbo vehicles

2. Extend rear spoiler.  
All vehicles

3. Unclip insulation at the left and right -1- (-2- ).

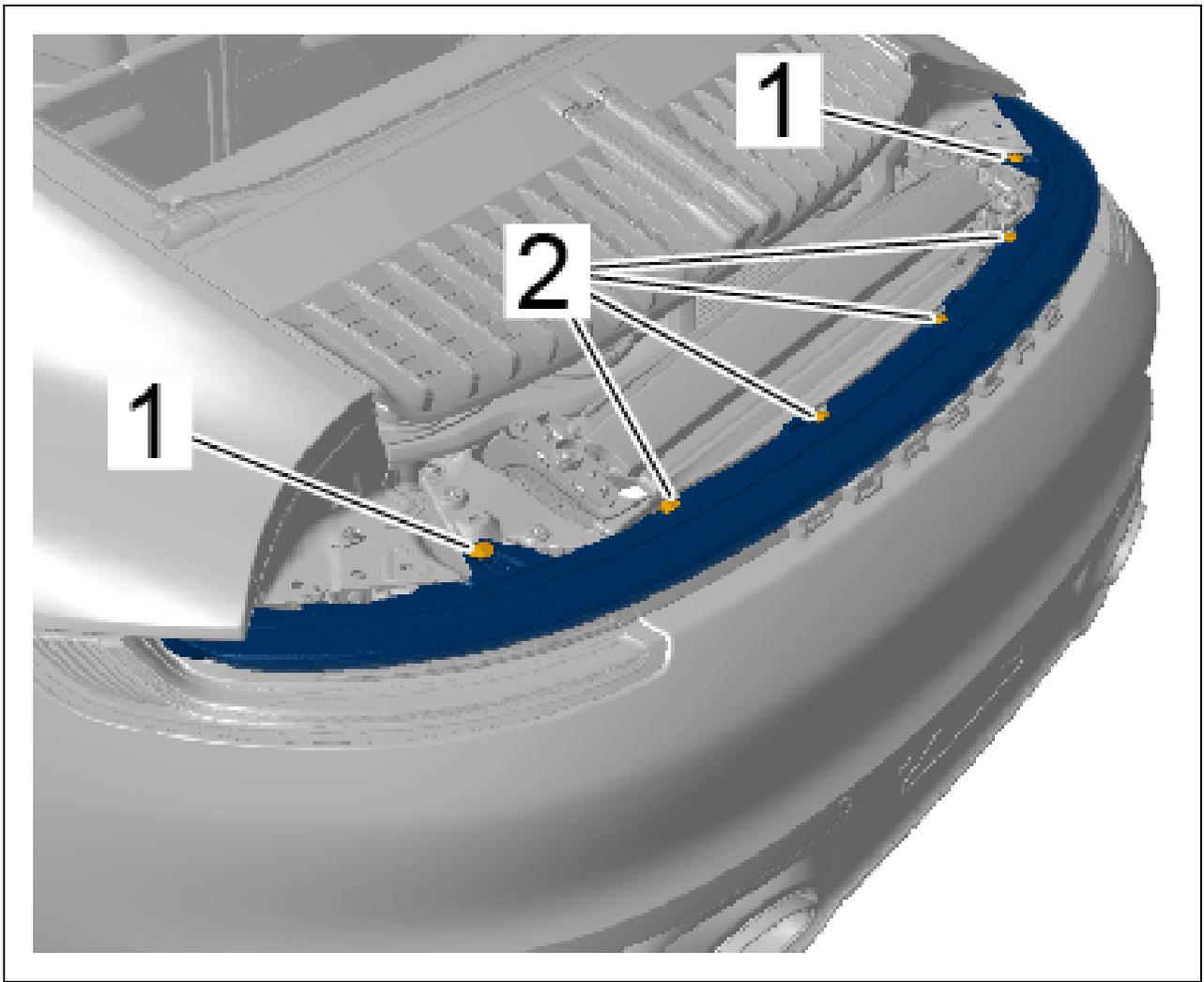


Courtesy of PORSCHE CARS NORTH AMERICA, INC.

Insulation

### REMOVING CENTRE TAIL LIGHT

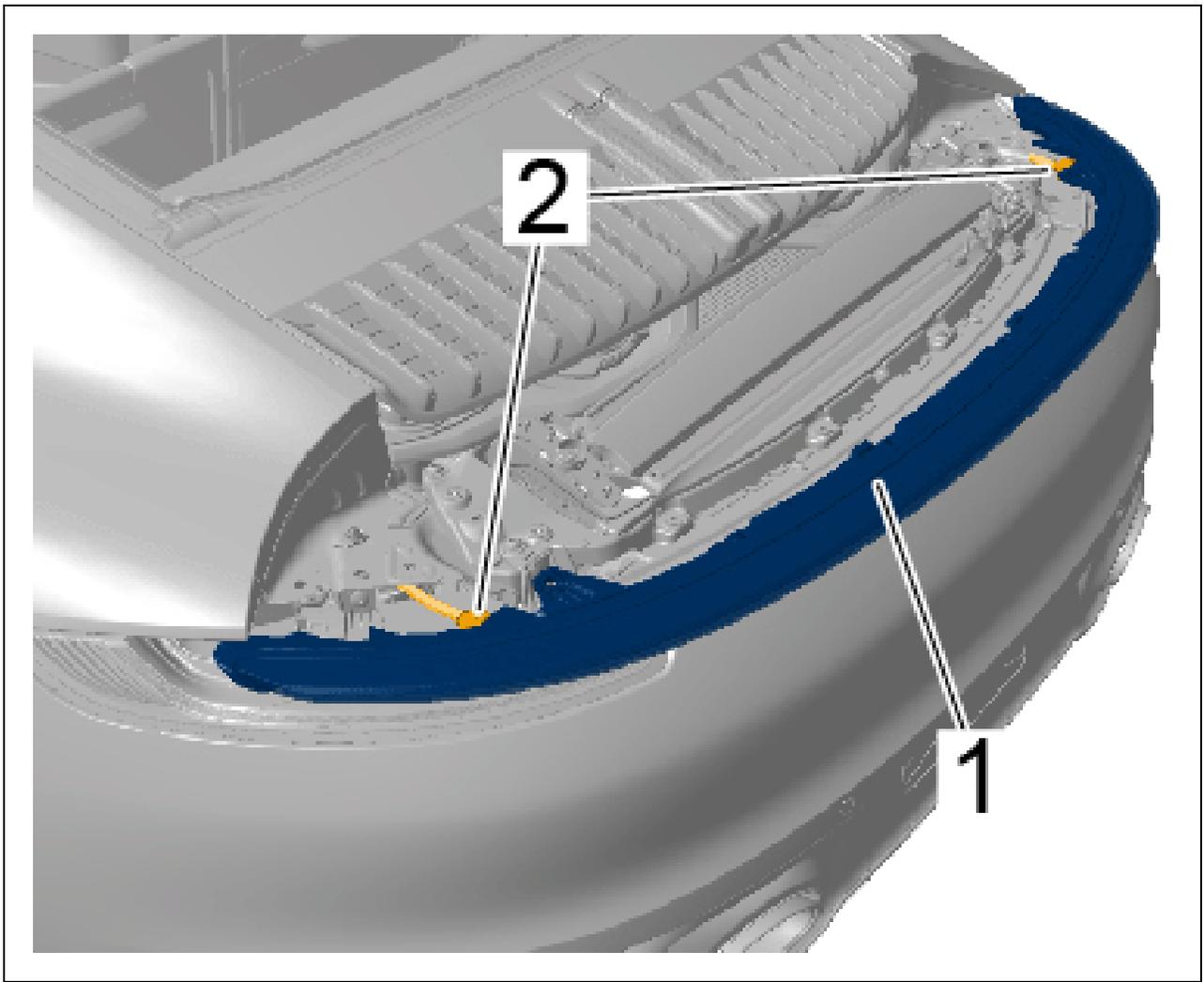
1. Unscrew fastening screws -1 and 2- .



Courtesy of PORSCHE CARS NORTH AMERICA, INC.

Fastening screws

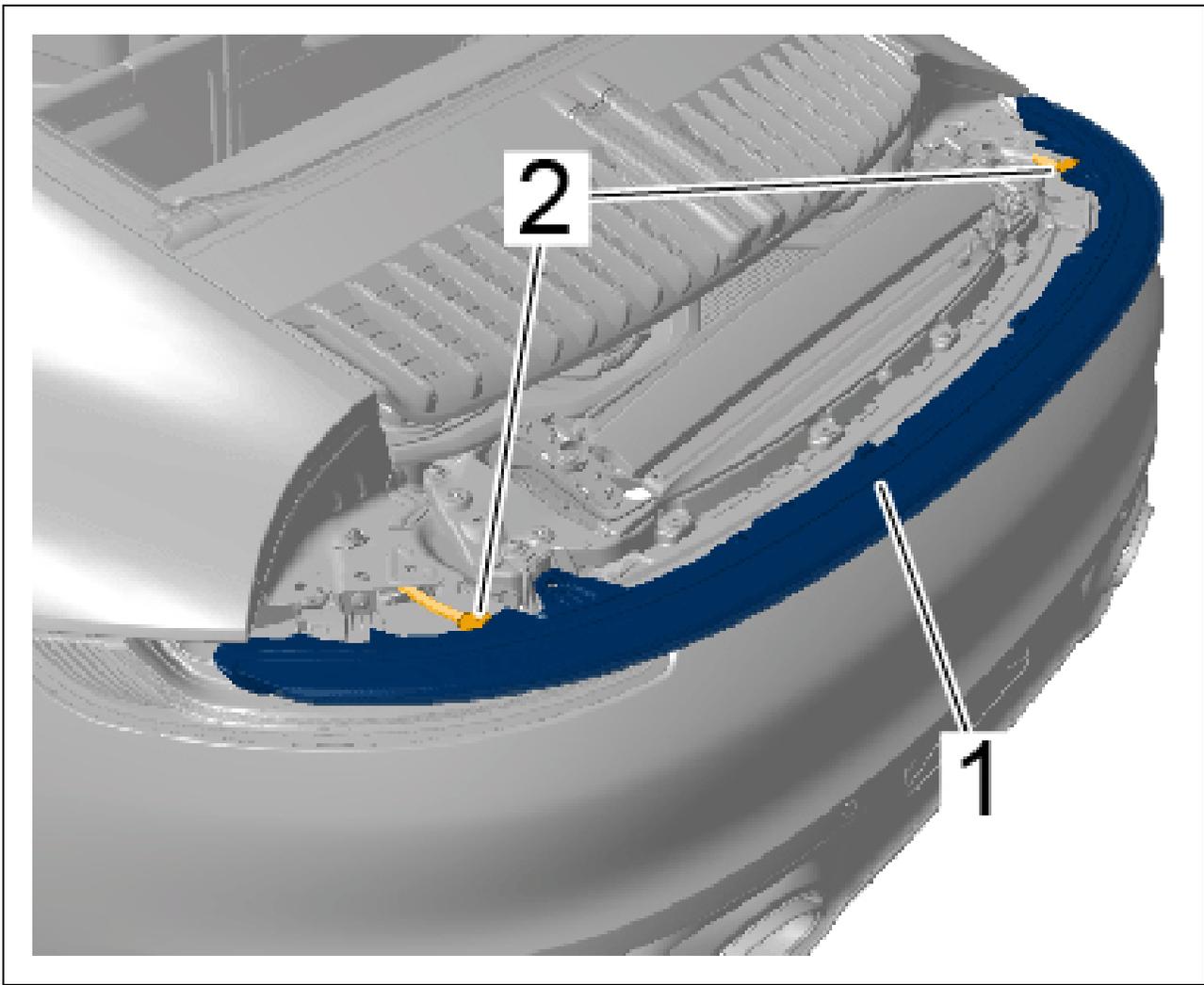
2. Pull out centre tail light **-1-** to the rear until the electric plug connections **-2-** are accessible.



Courtesy of PORSCHE CARS NORTH AMERICA, INC.

Centre tail light

3. Release and unplug electric plug connections -2- .

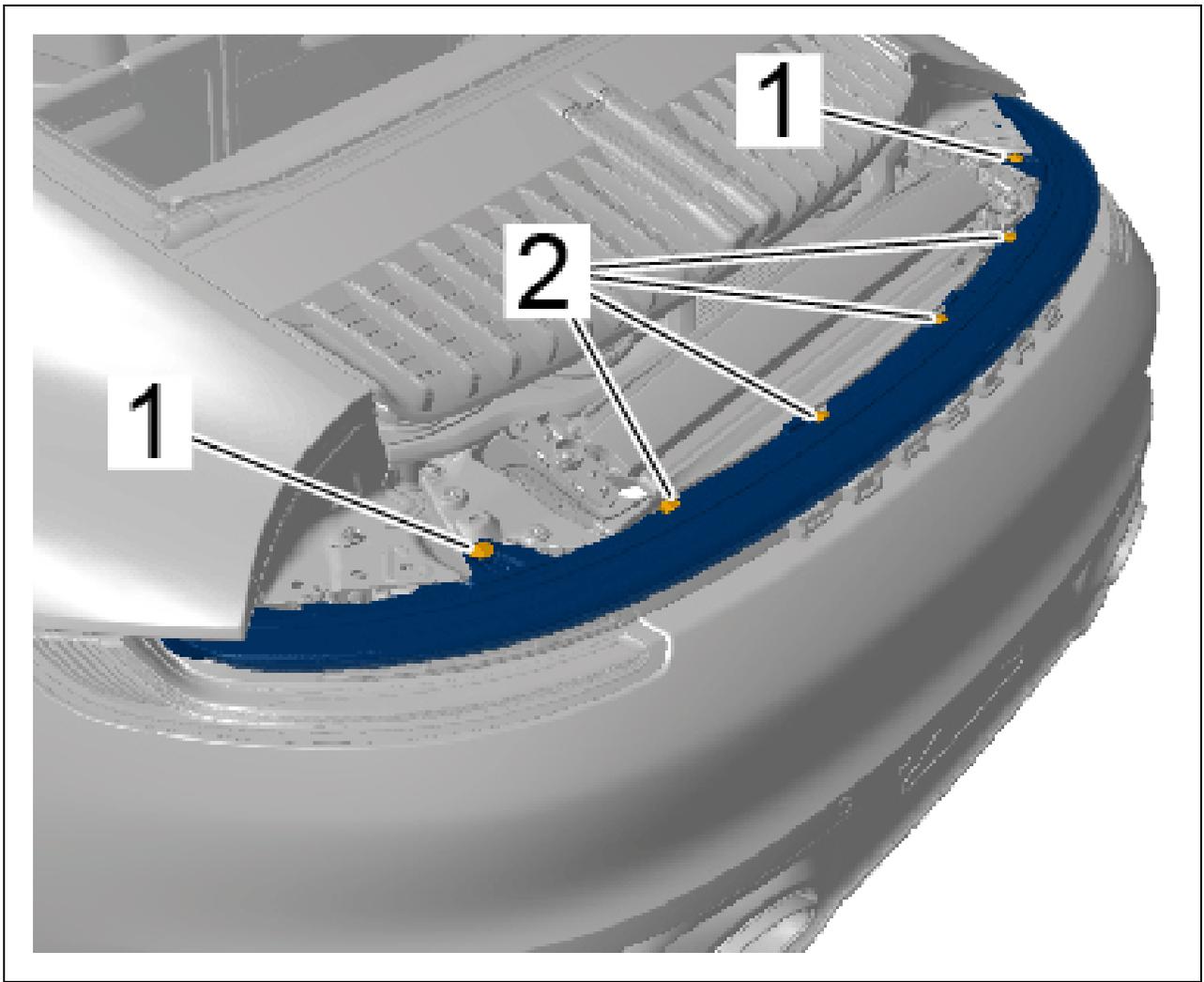


Courtesy of PORSCHE CARS NORTH AMERICA, INC.

Electric plug connections

### INSTALLING CENTRE TAIL LIGHT

1. Installation is performed in reverse order. Pay particular attention to the following:
  - Tighten fastening screws **-1-** for centre tail light to body to > **Tightening torque 6 Nm (4.5 ftlb.)** .
  - Tighten fastening screws **-2-** for centre tail light to body to > **Tightening torque 6 Nm (4.5 ftlb.)** .

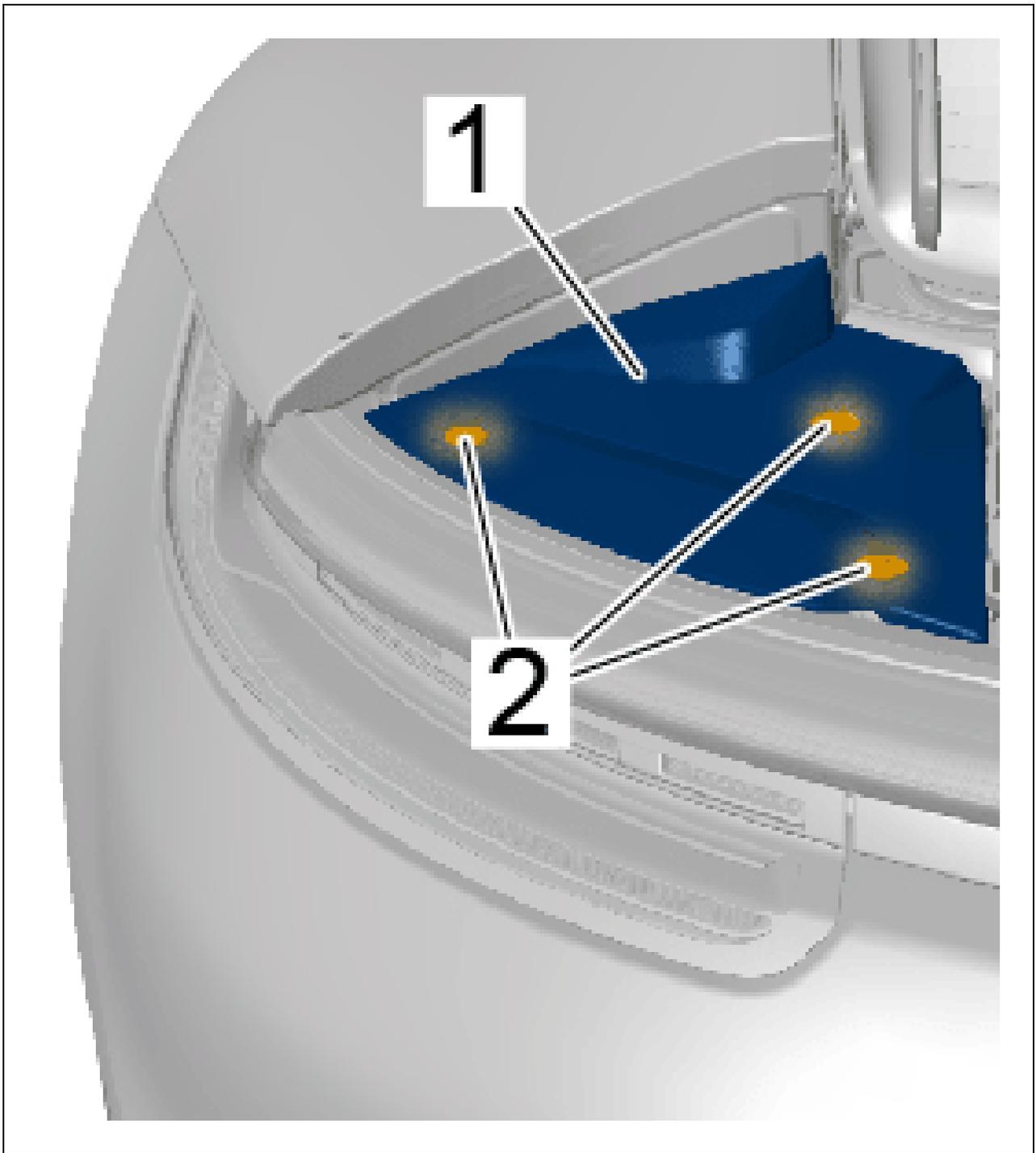


Courtesy of PORSCHE CARS NORTH AMERICA, INC.

Centre tail light

**SUBSEQUENT WORK**

1. Clip in insulation at the left and right -1- (-2- ).



Courtesy of PORSCHE CARS NORTH AMERICA, INC.

Insulation  
Only for Turbo vehicles

2. Install (lower part of) rear spoiler.  
> **WM, 66581905 REMOVING AND INSTALLING (LOWER PART OF) REAR SPOILER - information on "Installing"**  
Not for Turbo vehicles
3. Retract rear spoiler.

YMMS: 2020 Porsche 911 Carrera

Engine: 3.0L Eng

VIN:

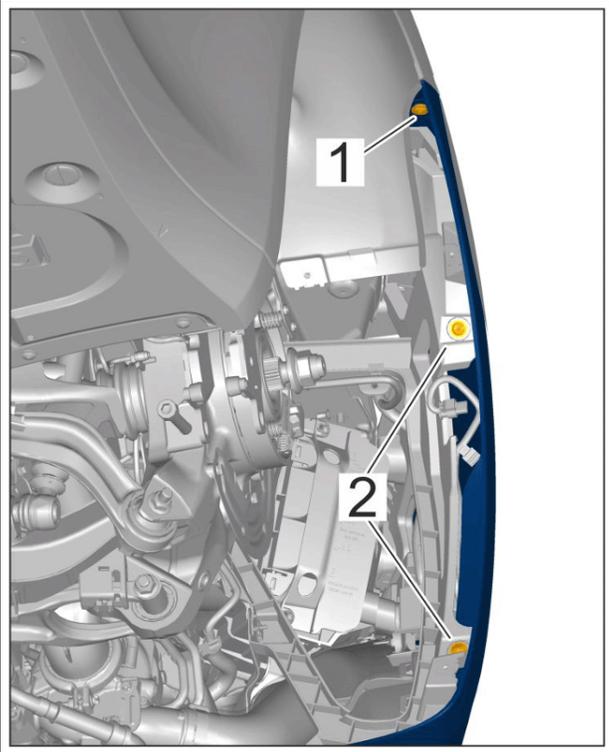
Aug 2, 2023

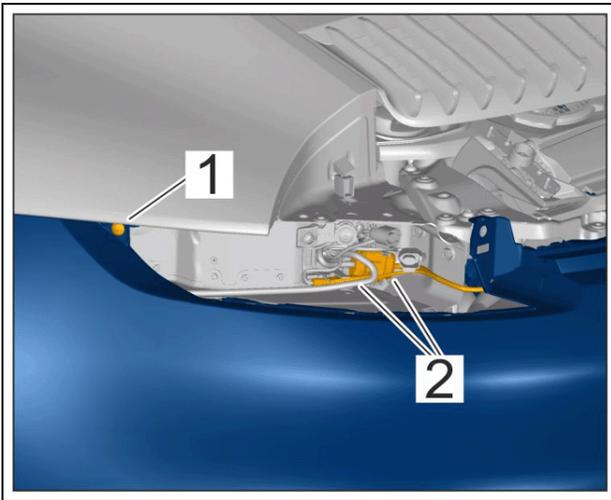
License:

Odometer:

## WM, 635519 REMOVING AND INSTALLING REAR APRON

### TECHNICAL VALUES

Location	Description	Type	Basic value	Tolerance 1	Tolerance 2
Rear bumper	Items 1 and 2	Tightening torque	3.2 Nm (2.4 ftlb.)		
 <p>Courtesy of PORSCHE CARS NORTH AMERICA, INC.</p>					
Rear bumper screws					
Rear bumper	Item 1	Tightening torque	7 Nm (5.2 ftlb.)		



Courtesy of PORSCHE CARS NORTH AMERICA, INC.

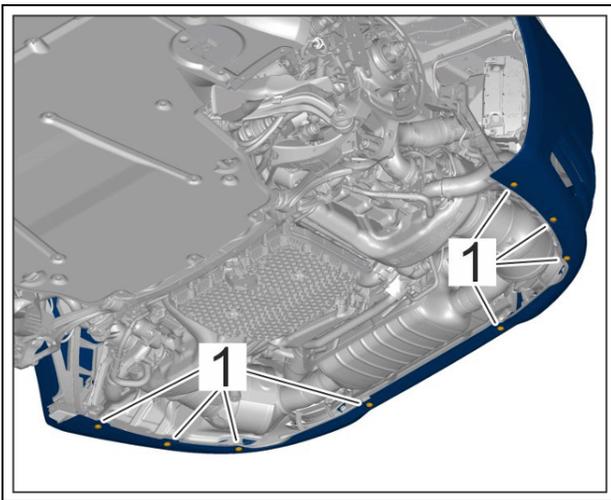
Rear bumper screw

Rear bumper lower

Item 1

Tightening torque

3.2 Nm  
(2.4 ftlb.)



Courtesy of PORSCHE CARS NORTH AMERICA, INC.

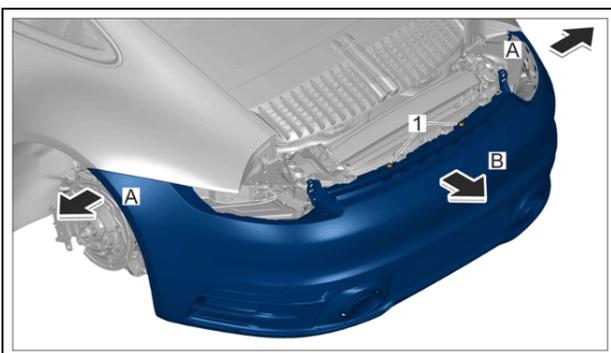
Screws on rear bumper, bottom

Rear bumper upper

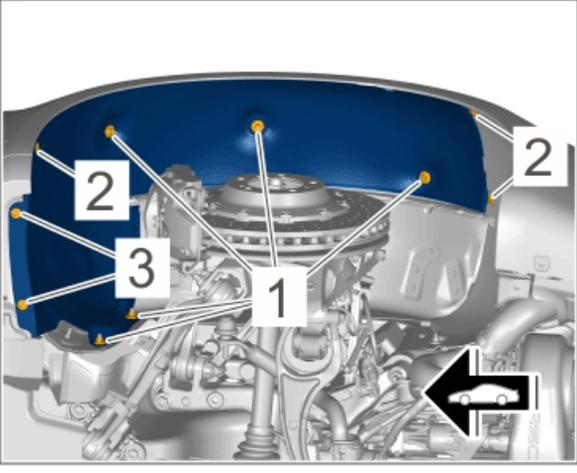
Item 1

Tightening torque

3.2 Nm  
(2.4 ftlb.)



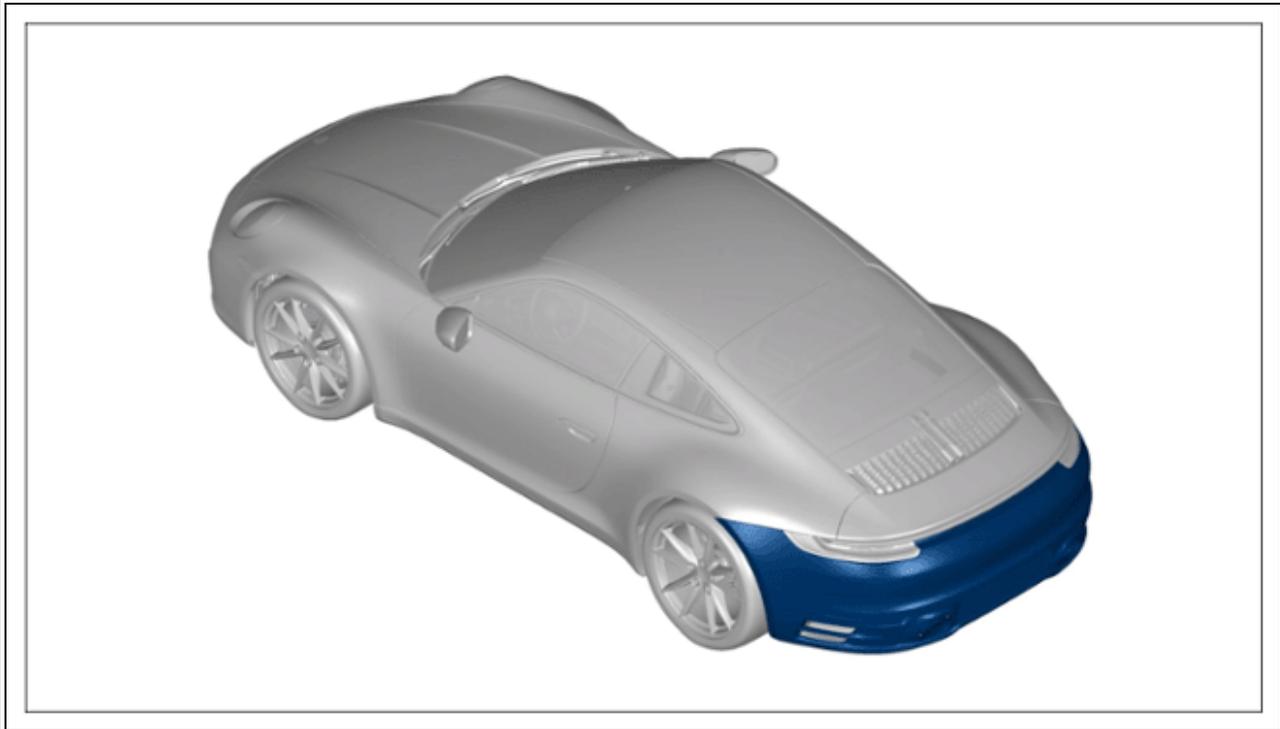
Courtesy of PORSCHE CARS NORTH AMERICA, INC.

Screws on rear bumper, top					
Rear wheel housing liner (front section)	Item 1	Tightening torque	2.5 Nm (1.75 ftlb.)	+ 10 %	- 15 %
					
<p>Courtesy of PORSCHE CARS NORTH AMERICA, INC.</p> <p>Fastening parts</p>					

**PRELIMINARY WORK**

1. Remove the tail light.  
943119 REMOVING AND INSTALLING TAIL LIGHT - information on "Removing"
2. Remove rear wheel housing liner (rear section).  
> WM, 53691903 REMOVING AND INSTALLING REAR WHEEL HOUSING LINER (REAR SECTION) - information on "Removing"

**REMOVING REAR APRON**



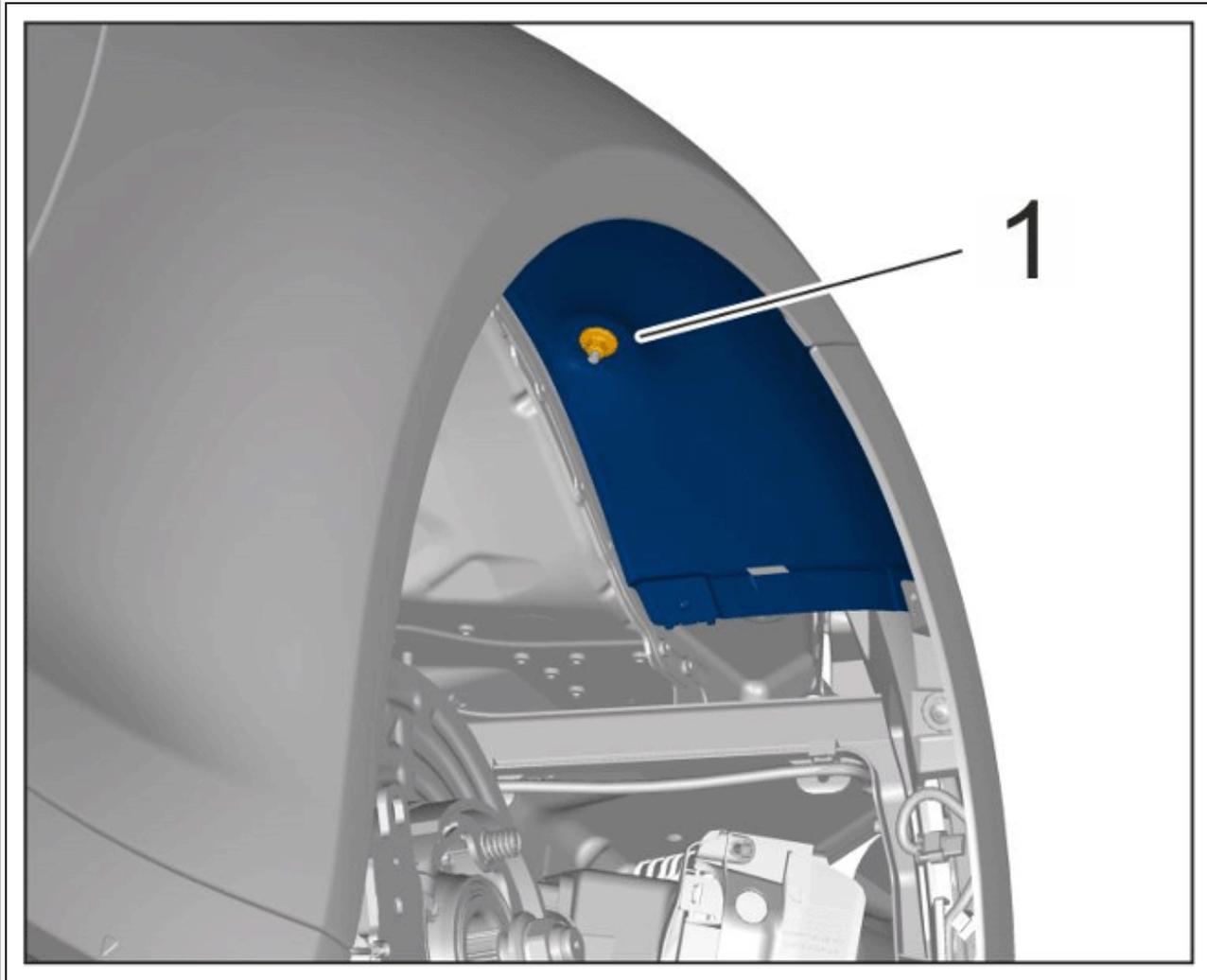
Courtesy of PORSCHE CARS NORTH AMERICA, INC.

Installation position

### Information

- The number of screws, clips, plug connections, holders and trim panels can vary depending on equipment.
- The illustrations for removing and installing are shown only on one equipment variant and can differ from the actual equipment variant.
- Some of the repair illustrations show only one side of the vehicle.

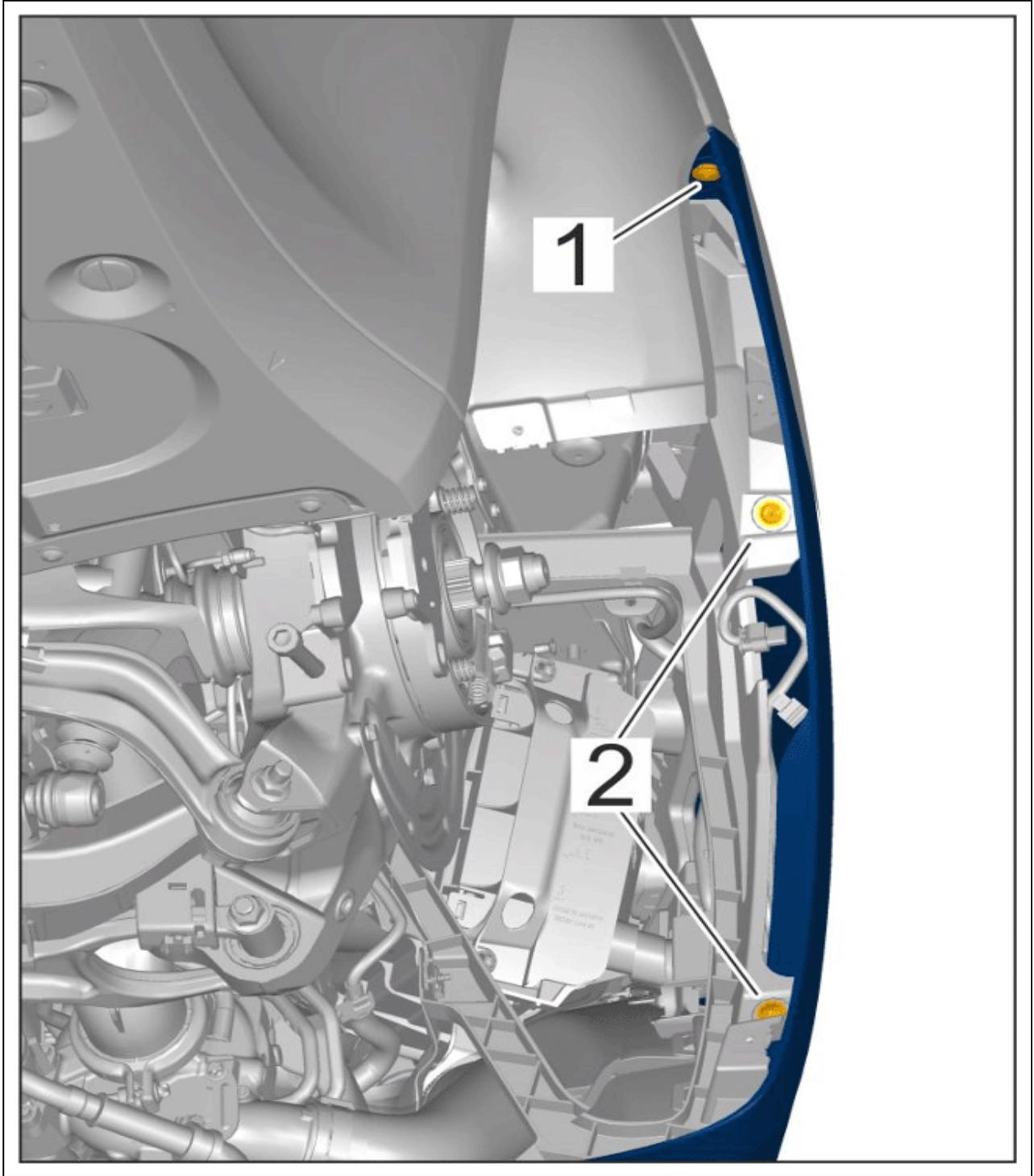
1. Unscrew nut on rear wheel housing liner -1- .



Courtesy of PORSCHE CARS NORTH AMERICA, INC.

Nut on wheel housing liner

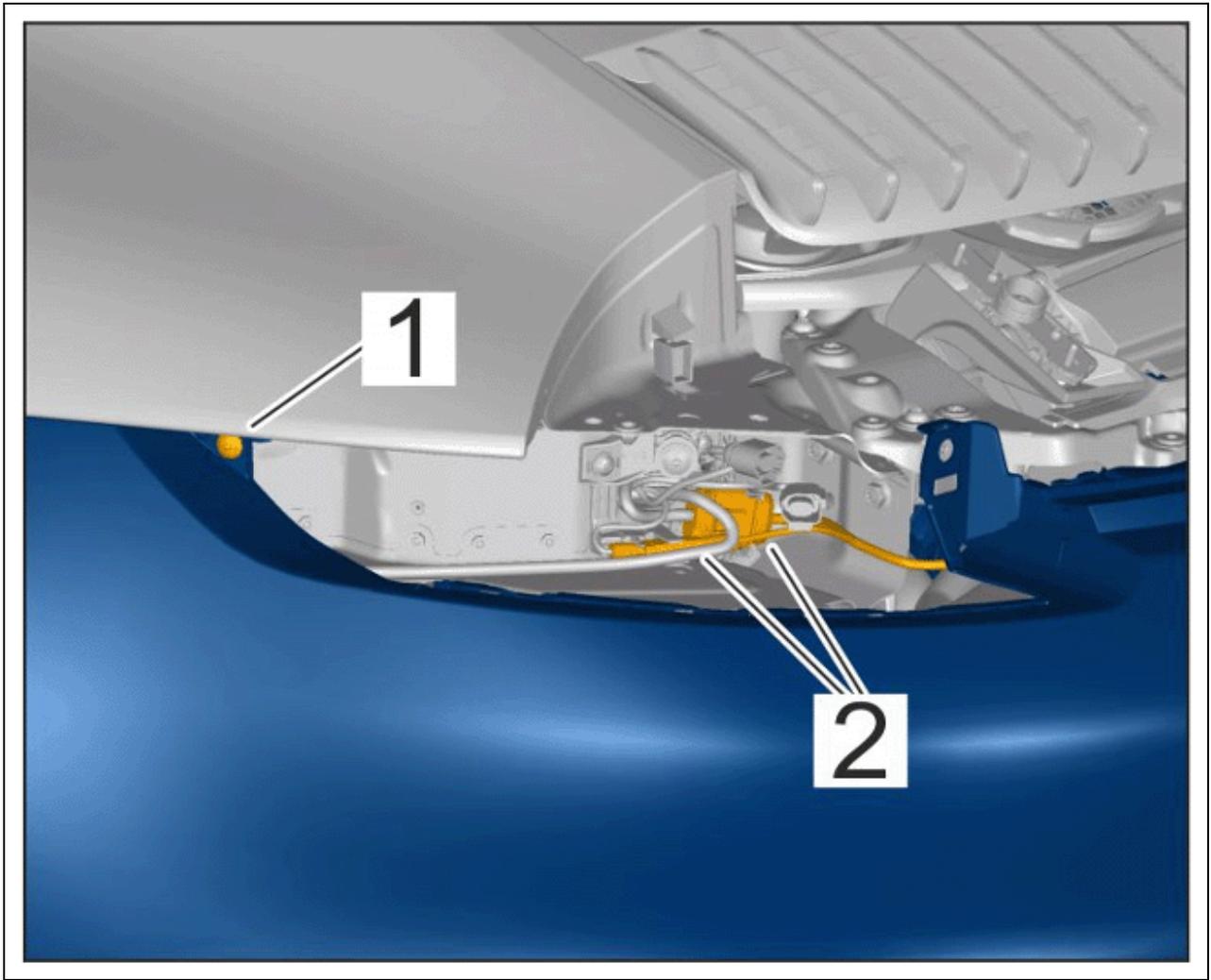
2. Unscrew and remove screws -1- and -2- .



Courtesy of PORSCHE CARS NORTH AMERICA, INC.

Screws on rear apron at wheel housing

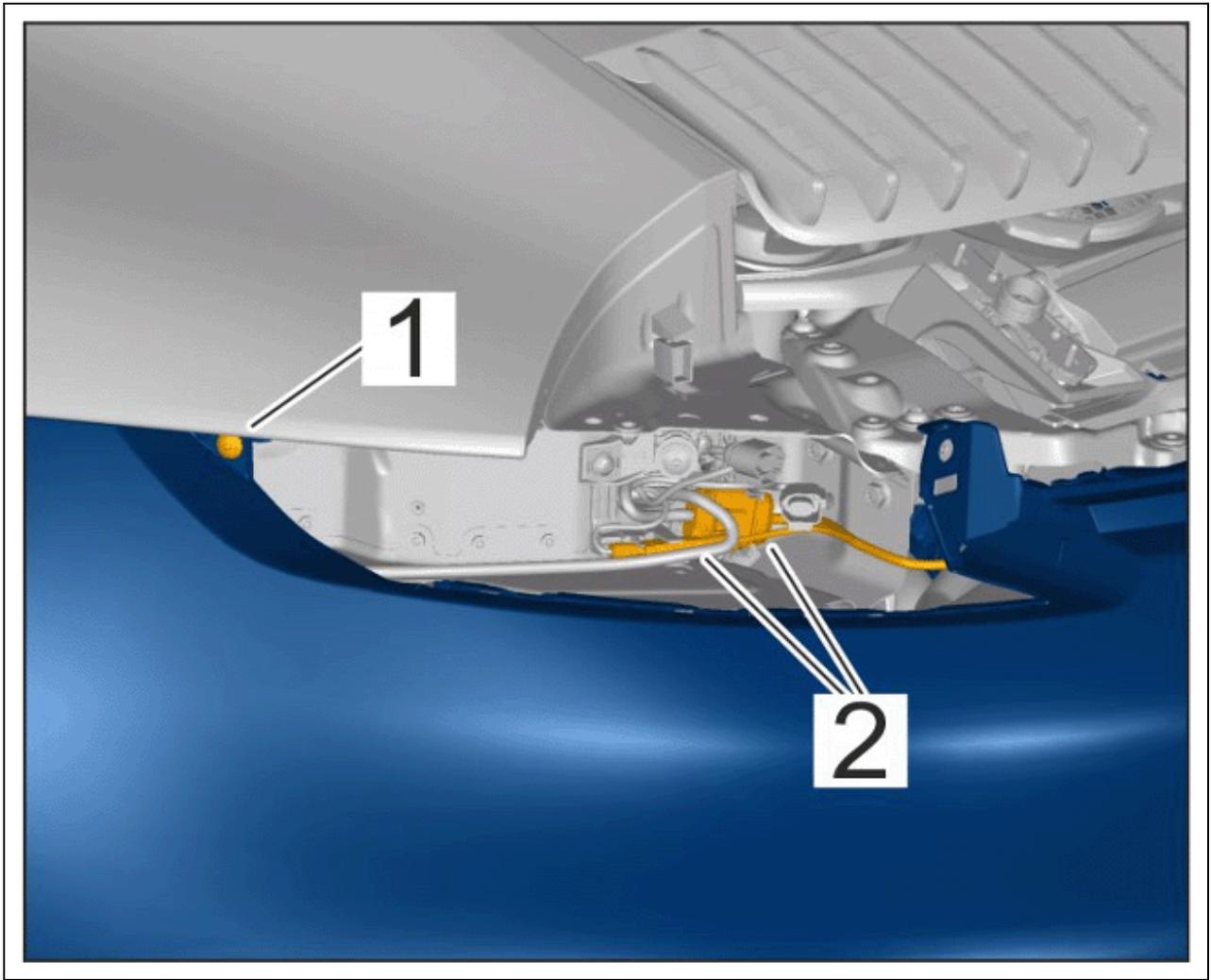
3. Unclip plug connections -2- .



Courtesy of PORSCHE CARS NORTH AMERICA, INC.

Plug connection for rear apron

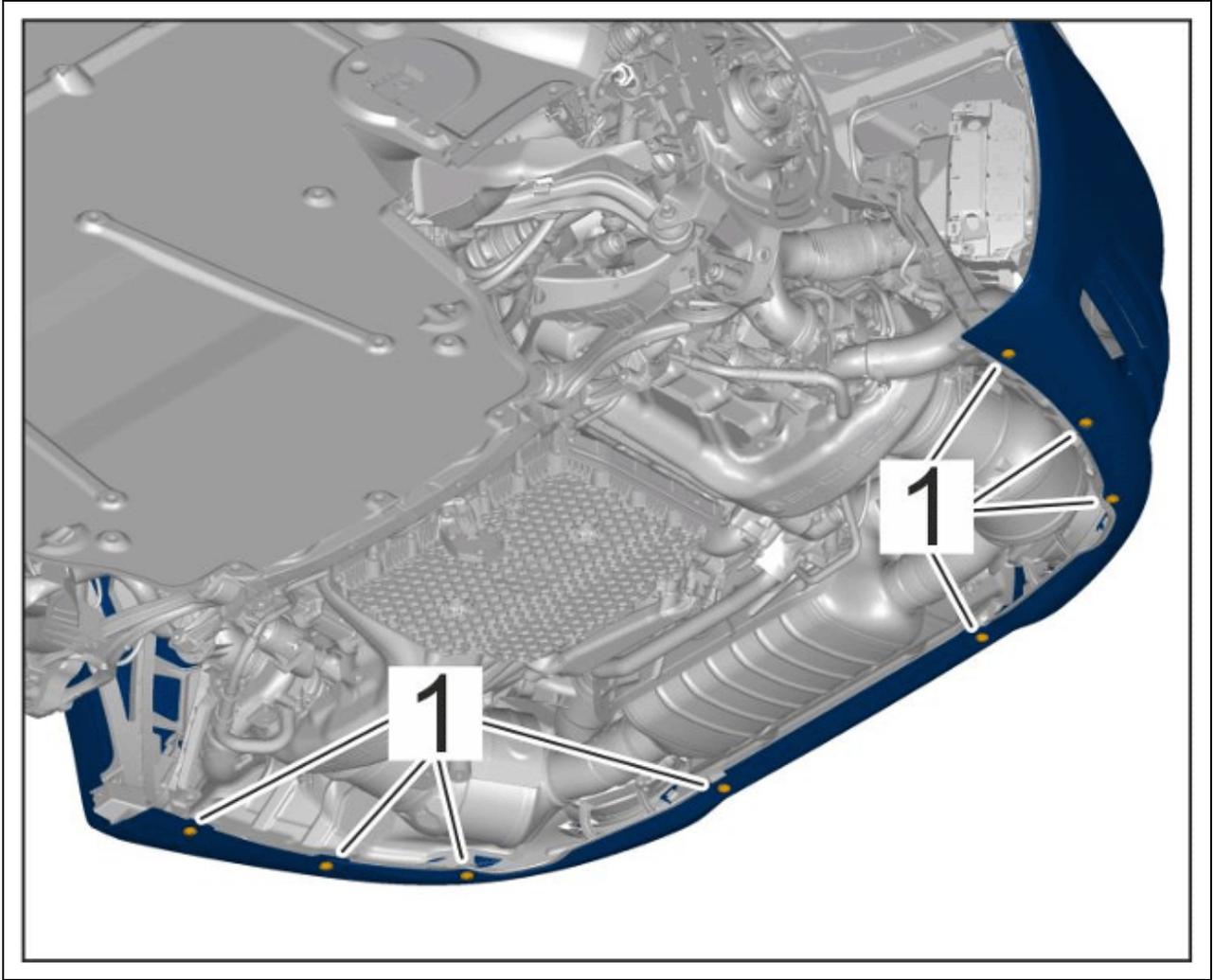
4. Unscrew and remove screw -1- .



Courtesy of PORSCHE CARS NORTH AMERICA, INC.

Screw on rear apron

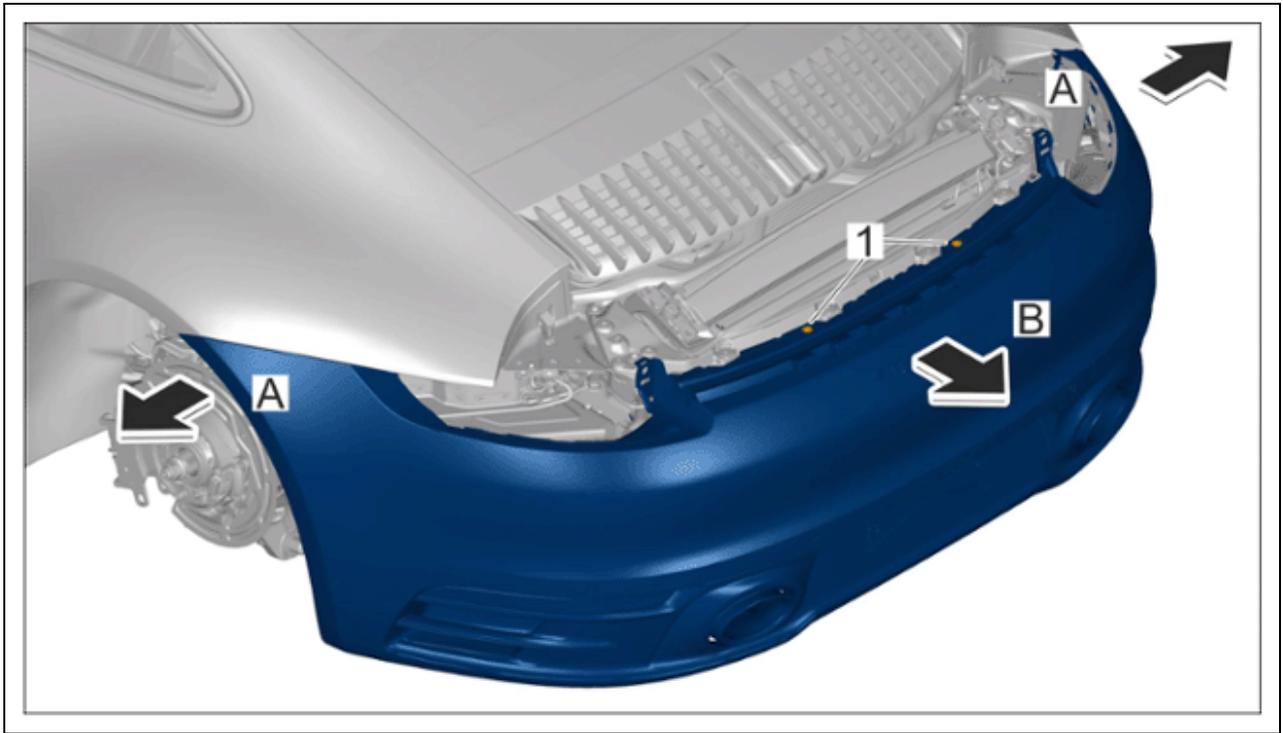
5. Unscrew screws at the bottom -1- .



Courtesy of PORSCHE CARS NORTH AMERICA, INC.

Screws on rear apron, bottom

6. Unscrew screws **-1-** at the top.



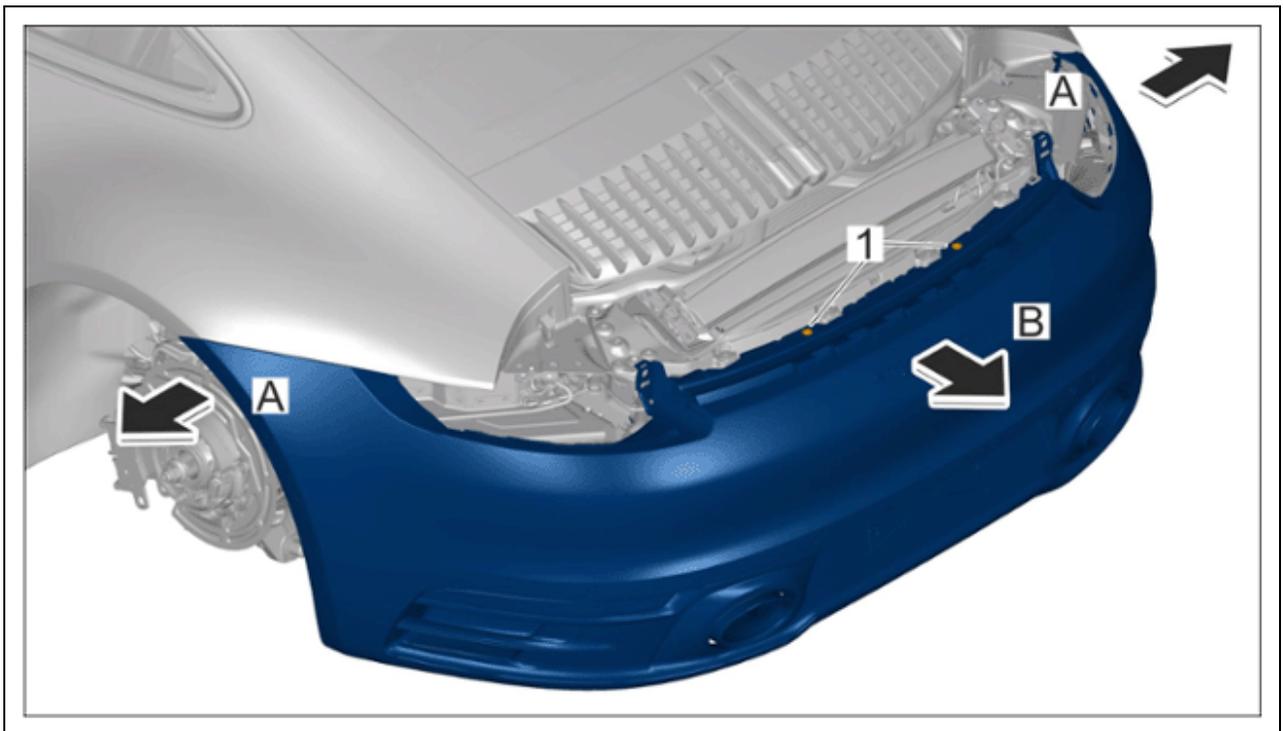
Courtesy of PORSCHE CARS NORTH AMERICA, INC.

Screws on rear apron, top

**Information**

Get another person to help you to remove the rear apron.

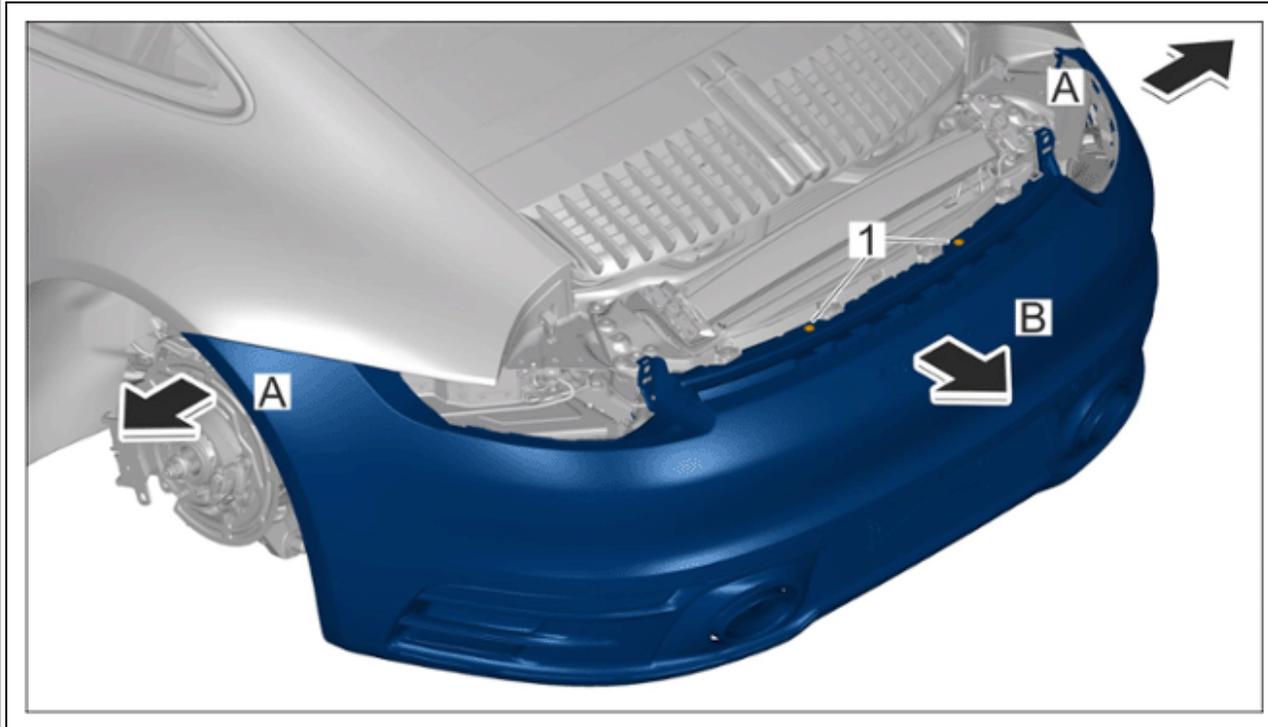
7. Carefully disengage rear apron at the sides -A- .



Courtesy of PORSCHE CARS NORTH AMERICA, INC.

Disengaging rear apron

8. Remove rear apron by pulling i to the rear **-B-** .



Courtesy of PORSCHE CARS NORTH AMERICA, INC.

Removing rear apron

## INSTALLING REAR APRON

### **NOTE: NOTIFICATION**

*Heat protection panels not fitted correctly*

- *Risk of damage to adjacent parts*
  - *Make sure the heat protection panels overlap correctly.*
  - *Replace damaged or deformed heat protection panels.*
  - *Check heat protection panels for deformation, secure fixing of the aluminum braided cord, cracks and missing or damaged fixing tabs.*
  - *At least 80% of the total sealing area must be sealed without gaps.*

### **Information**

Get another person to help you to install the rear apron.

1. Installation is performed in reverse order.
2. Tighten top screws to > **Tightening torque 3.2 Nm (2.4 ftlb.)** .
3. Tighten bottom screws to > **Tightening torque 3.2 Nm (2.4 ftlb.)** .
4. Tighten screw to > **Tightening torque 7 Nm (5.2 ftlb.)** .
5. Tighten screws to > **Tightening torque 3.2 Nm (2.4 ftlb.)** .
6. Tighten nut on wheel housing liner to > **Tightening torque 2.5 Nm (1.75 ftlb.) + 10 % - 15 %** .

## **SUBSEQUENT WORK**

1. Install rear wheel housing liner (rear section).

> **WM, 53691903 REMOVING AND INSTALLING REAR WHEEL HOUSING LINER (REAR SECTION) - information on "Installing"**

2. Install tail light.

943119 REMOVING AND INSTALLING TAIL LIGHT - information on "Installing"

YMMS: 2020 Porsche 911 Carrera

Engine: 3.0L Eng

VIN:

Aug 2, 2023

License:

Odometer:

## WM, 198119 REMOVING AND INSTALLING ENGINE-COMPARTMENT BLOWER

### PRELIMINARY WORK

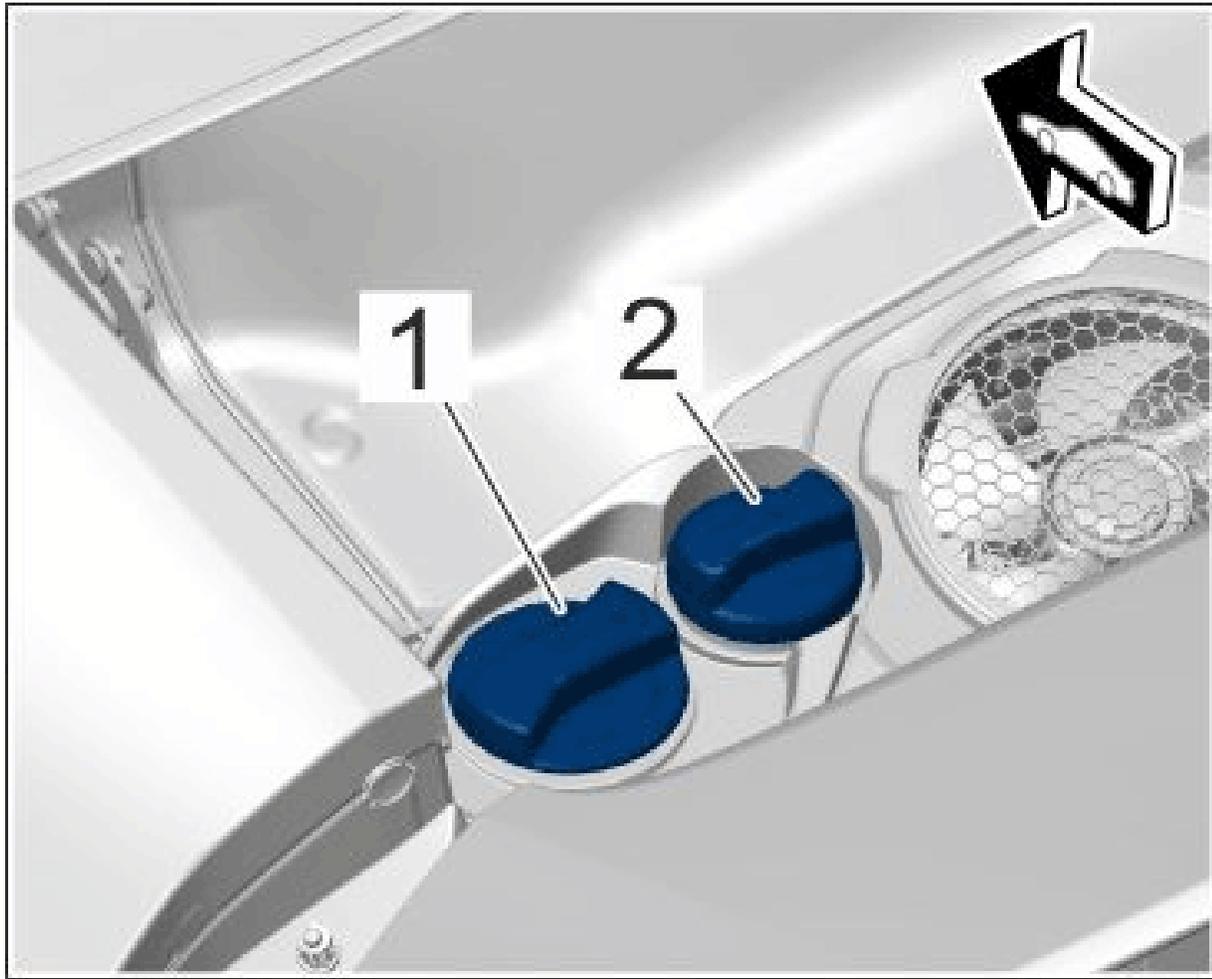
1. Open the engine cover and extend rear spoiler.
2. **Cabriolet vehicles:** Move convertible top into service position.  
Refer to the appropriate service information.

### REMOVING ENGINE-COMPARTMENT BLOWER

**WARNING:** *Moving components*

- *Danger of limbs being trapped or severed*
  - *Do not reach into the danger area.*
  - *Secure the system to prevent it from being activated accidentally.*
  - *Keep third parties away from the danger area.*

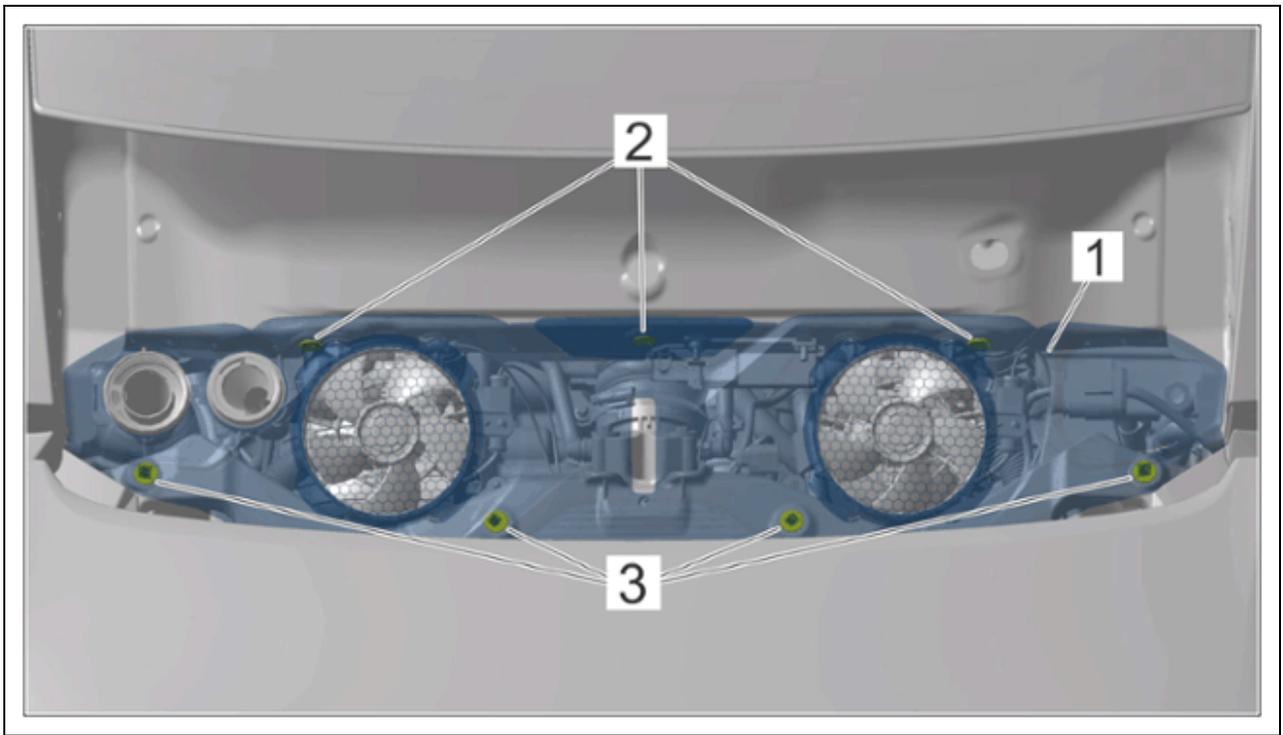
1. Unscrew cap on coolant reservoir -1 and oil filler neck -2- .



Courtesy of PORSCHE CARS NORTH AMERICA, INC.

Cover on oil filler neck and coolant

2. Carefully remove cover **-1-** on engine-compartment blower.  
Carefully unclip cover from the rubber sleeves at the front **-2-** and rear **-3-** .



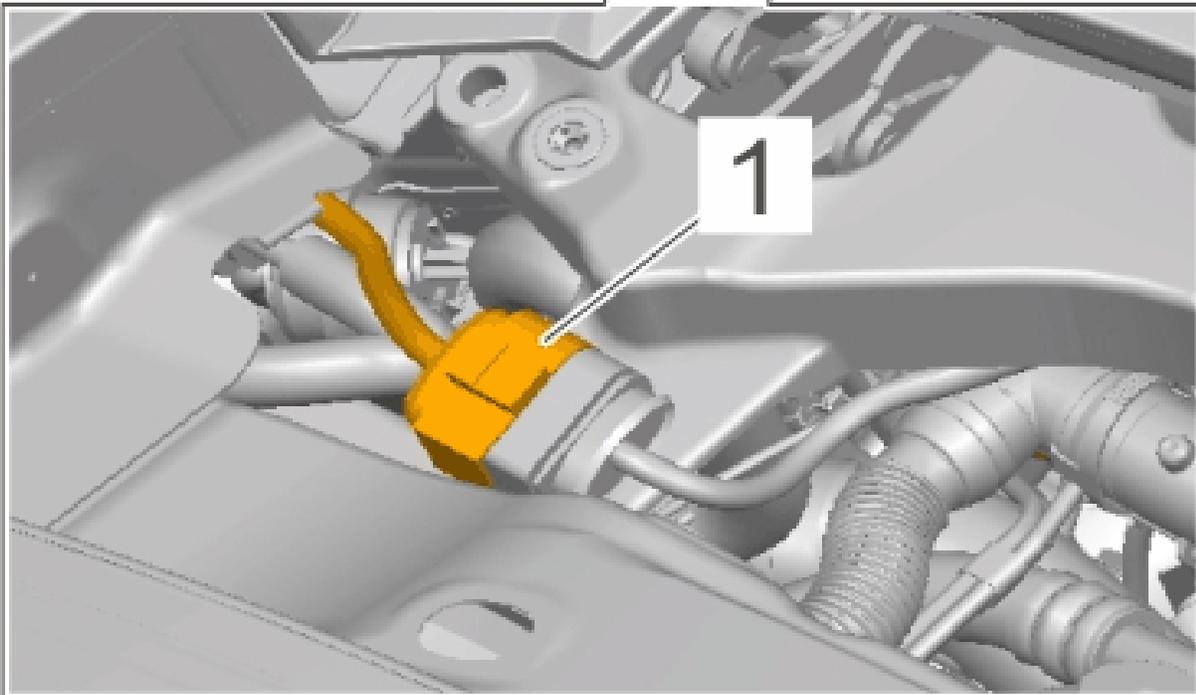
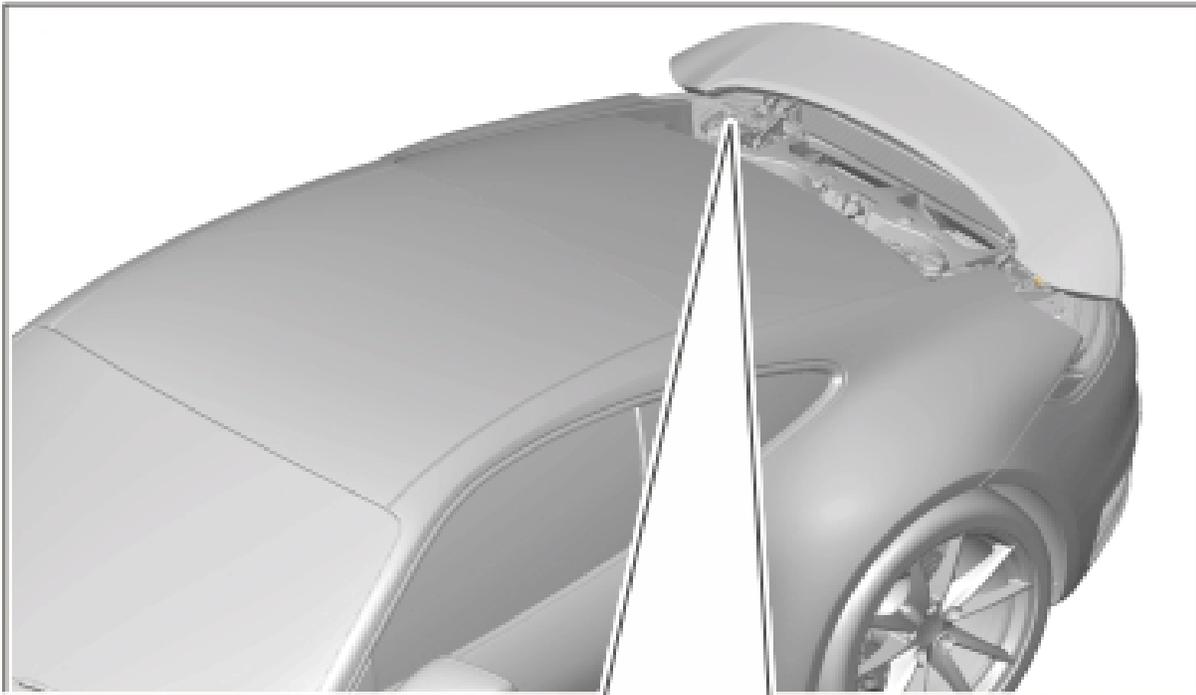
Courtesy of PORSCHE CARS NORTH AMERICA, INC.

#### Engine-compartment blower cover

3. Tighten cap on the oil filler neck and coolant reservoir.

#### Information

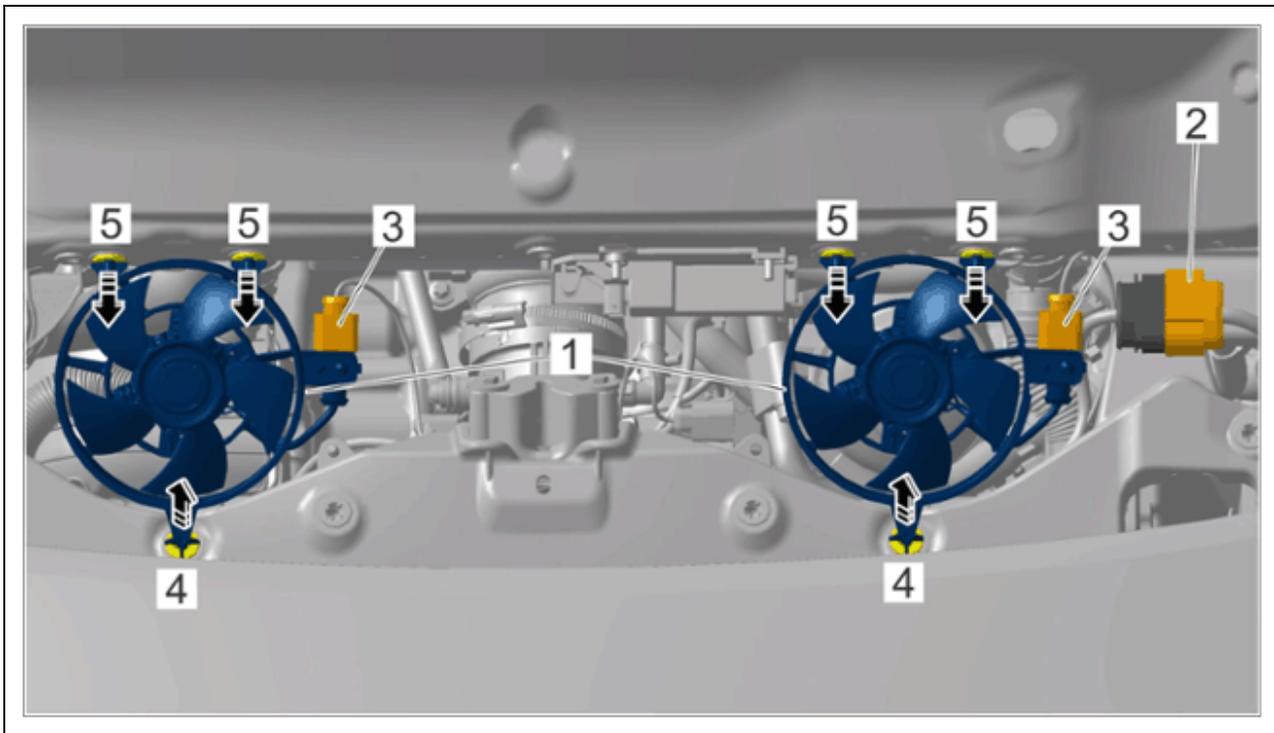
1. **Temperature changes can cause the engine-compartment blower to start up at any time (protection against overheating).**
  2. **Always disconnect the plug connection at the rear spoiler bracket before removal.**
4. Release and disconnect central connector -1- .



Courtesy of PORSCHE CARS NORTH AMERICA, INC.

#### Electric plug connection

5. Remove engine-compartment blower at the left and right **-1-** .  
Make sure that the central connector **-2-** is disconnected.  
Disconnect cable plug **-3-** for engine-compartment blower.  
Pull engine-compartment blower out of the rubber sleeves at the rear **-arrow 4-** first, then at the front **-arrows 5-** .  
Remove engine-compartment blower.



Courtesy of PORSCHE CARS NORTH AMERICA, INC.

Engine-compartment blower at the left and right

## INSTALLING ENGINE-COMPARTMENT BLOWER

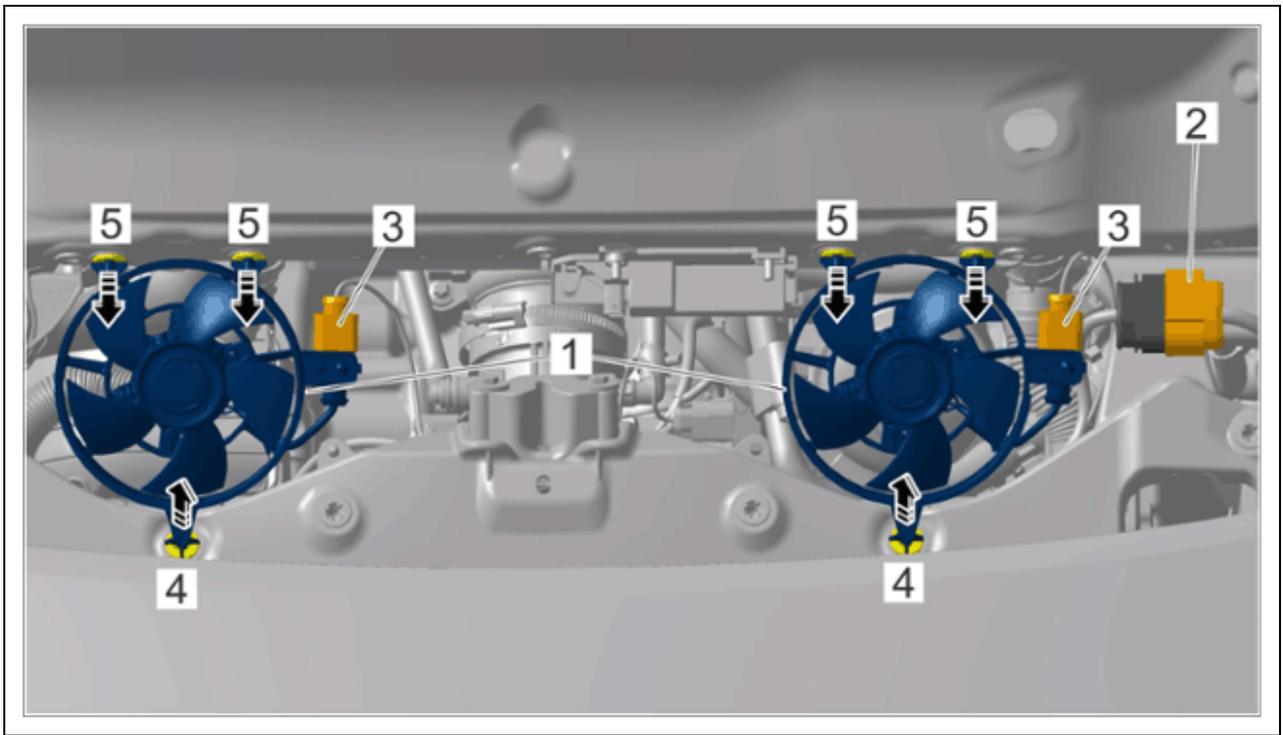
### **WARNING:** *Moving components*

- *Danger of limbs being trapped or severed*
  - *Do not reach into the danger area.*
  - *Secure the system to prevent it from being activated accidentally.*
  - *Keep third parties away from the danger area.*

### **Information**

Make sure that the rubber mountings are not crushed or damaged during installation.

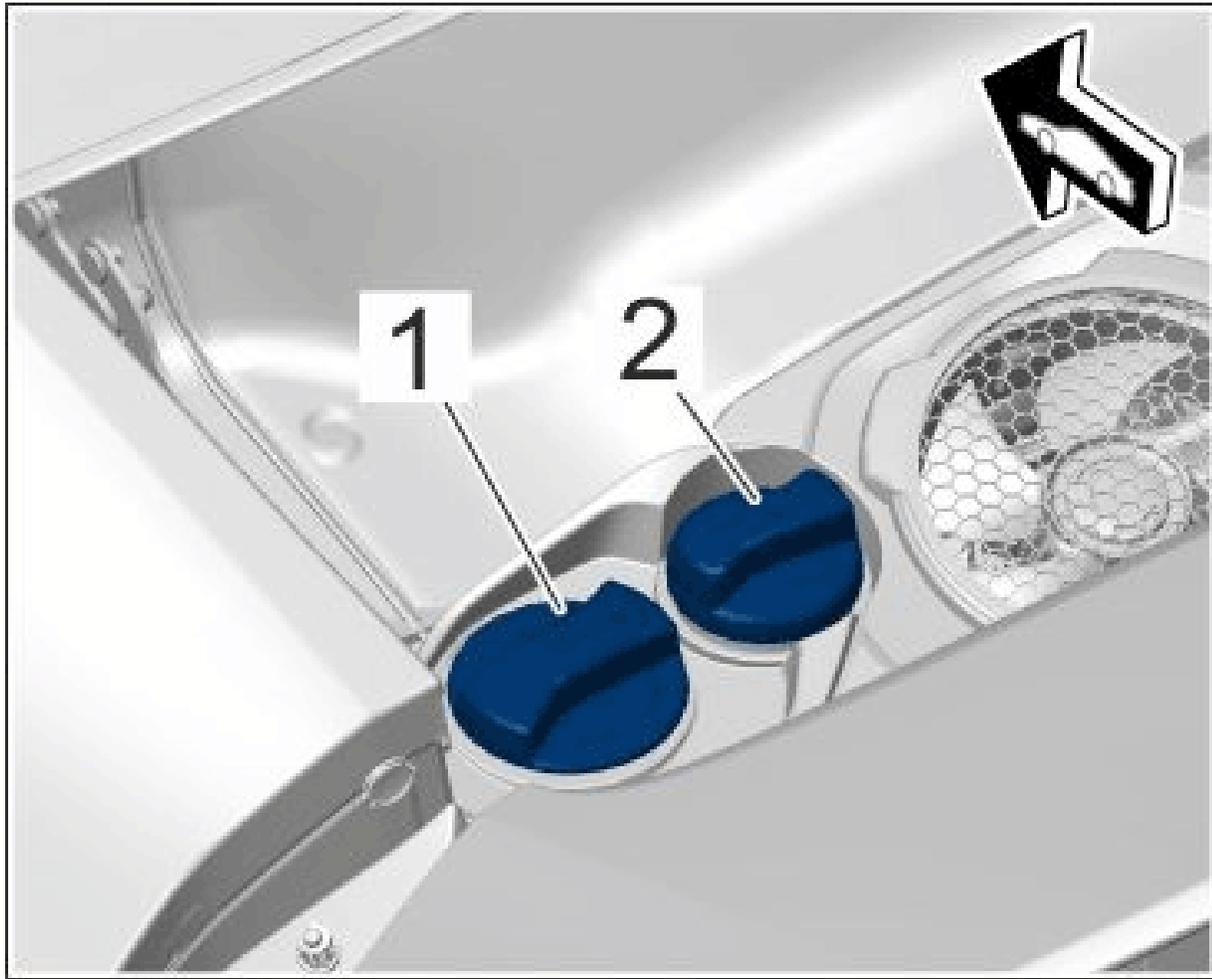
1. Coat rubber sleeves with assembly grease.
2. Install engine-compartment blower **-1-** at the left and right.  
 Clip in engine-compartment blower at the front **-5-** rubber sleeves, then at the rear **-4-** .  
 Connect cable plug **-3-** for engine-compartment blower.  
 Connect central connector **-2-** .



Courtesy of PORSCHE CARS NORTH AMERICA, INC.

Engine-compartment blower at the left and right

3. Position cover on engine-compartment blower and clip it in.
4. Screw on cap on coolant reservoir **-1-** and oil filler neck **-2-** and check that it is seated securely.



Courtesy of PORSCHE CARS NORTH AMERICA, INC.

Cover on oil filler neck and coolant

### **SUBSEQUENT WORK**

1. **Cabriolet vehicles:** Close convertible top.  
Refer to the appropriate service information.
2. Retract rear spoiler and close the engine cover.