

Cayenne (9YA) 15/20 ENU 9163

PORSCHE Front Camera (Dashcam)

Information: This bulletin replaces bulletin Group 9 15/20, dated May 12, 2021.

Information: Retrofitting



Figure 1

Model Year: As of 2018

Note: The Porsche front camera (dashcam \Rightarrow *Figure 1*) is affixed to the **LEFT** of the interior mirror (viewed in direction of travel) on the windscreen and is connected to the vehicle electrical system.

It is ideal for making video recordings of driving situations and while parking. It can be configured and operated using a related app on your smartphone.

Recorded videos are stored on the supplied SD card and previous recordings are overwritten.

If the dashcam detects a shake/vibration or if the radar sensor is triggered, the recorded video is stored separately and not overwritten. Recordings can be downloaded directly from the SD card or via the app.

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Cayenne (9YA)

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i Information

Important information for customers/customer service advisors:

• Ask customers to download and install the "Porsche Dashcam App" from the App Store (Apple or Google Play) on their device (smartphone/tablet) in advance.

For vehicle handover:

- Together with the customer, check whether a firmware update via "Porsche Dashcam App" is necessary. Perform the firmware update together if necessary.
- Together with the customer, choose the "Region/State/Country" by selecting the relevant flag and format the SD card.

Further information for customers:

- The customer is responsible for choosing the right "Region/State/Country"!
- After crossing a national border: Update the "Region/State/Country" (see also conditions of use for this topic)!

Parts Info: **9Y0.044.930**

 \Rightarrow PORSCHE front camera (dashcam), set



Figure 2

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Tequipment

Parts List:

Repair kits:

9

| | 1 x | 3M privacy film (front & rear camera) \Rightarrow Figure 2 -1- | |
|---|---|--|--|
| | 1 x | Front camera \Rightarrow Figure 2 -2- | |
| | 1 x | Micro SD memory card (32 GB, plugged into front camera) \Rightarrow Figure 2-3- | |
| | 1 x | Front camera retainer plate assembly with wire harness \Rightarrow Fig 2-4- | |
| | 1 x | Wire harness assembly with connector (3-pin, wire approx. 4 long) \Rightarrow Figure 2-5- | |
| | 3 x | Protective foam (\emptyset approx. 29 x 74) \Rightarrow Figure 2-6- | |
| | 7 x | Tie-wrap, 145 x 3.6 x 1.1 <i>⇒ Figure 2-</i> 7- | |
| N .907.326.01 | 4 x | Socket contact, 4.8 x \varnothing 1.0 mm ² \Rightarrow Figure 2 -8- | |
| N.907.327.01 | 2 x | Socket contact, 4.8 x \emptyset 2.5 mm ² (standard power timer) \Rightarrow Figure 2-9- | |
| N .906.844.01 | 3 x | Socket contact, 2.8 x \emptyset 1.0 mm ² (junior power timer) \Rightarrow Fig. -10- | |
| 999.650.136.22 | 4 x | Socket contact, 5.0 x \varnothing 1.0 mm ² \Rightarrow Figure 2-11- | |
| N .017.506.5 | 2 x | Cable ring eyelet, A6 \Rightarrow Figure 2-12- | |
| 992.971.859.B | 2 x | Cable ring eyelet, M8 \Rightarrow Figure 2-13- | |
| N .102.615.01 | 2 x | Blade-type fuse, 5 amp (mini) \Rightarrow Figure 2-14- | |
| N 017 101 1/ | 2 x | Blade-type fuse, 5 amp \Rightarrow <i>Figure 2</i> -15- | |
| N .017.131.16 | 2 ^ | Diade-type ruse, 5 amp \rightarrow right e 2 - 13- | |
| | 1 x | PORSCHE dashcam operating instructions \Rightarrow Figure 2-16- | |
| | 1 x acing the wir 1 x 1 x | PORSCHE dashcam operating instructions ⇒ Figure 2-16- ndscreen/rear window: "Adhesive pad" repair kit, includes: Adhesive pad for front camera retainer plate (grey) on backing sheet | |
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Installation and Conversion Instructions

Video recording in Quad High Definition (QHD)
details:
Lens with polarization filter to reduce reflections and improve colors and contrasts
Audio recording (can be deactivated)
Global positioning system (GPS) sensor

- Vibration sensor
- Radar sensor for video recording when an object is approaching the vehicle
- Bracket for the windscreen for fixed mounting on the vehicle

| Materials: | 1 x | Auxiliary line (Tekalan or Teflon hose) approx. 1,500 mm/ 59 ir long | |
|------------|---------|--|--|
| | 1 x | Wrapping/insulating tape (commercially available) | |
| | 1 x | Cleaning cloth (commercially available) | |
| | 1 x | Isopropanol (commercially available) | |
| | | | |

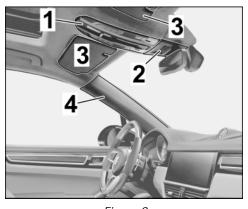
Tools: 9900 - PIWIS Tester 3

VAS 6427 - Release pliers

Tablet, smartphone or PC with Internet access Marking pencil/chalk Flashlight Plastic squeegee

Installing: 1 Preparatory work

- 1.1 Clean inside and outside of the windscreen.
- 1.2 Connect battery charger. ⇒ Workshop Manual '2XOOIN Work instructions after disconnecting the battery' or ⇒ Workshop Manual '2XOOIN Trickle charging 12-volt lithium-ion battery'.
- 1.3 Expose front roof/(interior) rear-view mirror area (\Rightarrow *Figure 3*)
 - 1 Roof console (front)
 - **2** Cover on antenna
 - **3** Sun visor
 - A-pillar trim panel (upper part)
 - 1.3.1 Remove front roof console and front cover. ⇒ Workshop Manual '708319 Removing and installing front roof trim panel'



1.3.2Remove sun visor (left/right). \Rightarrow Figure 3Workshop Manual '682319 Removing and installing sun visor'

Tequipment

Installation and Conversion Instructions

LHD vehicles: ⇒ Workshop Manual '70221901 Removing and installing dashboard

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- 1.4 Expose A-pillar area (at left) (\Rightarrow Figure 4 (LHD) vehicle)
 - 1 - Cover for dashboard (left)
 - 2 - Side-section trim panel (left)
 - 3 - A-pillar trim panel (lower part)
 - 4 - Inner door sill trim (left)
 - 5 Footrest

1.4.4

1.5

vehicle

2

1

2

D

Е

installing headliner'

- 1.4.1 Remove and install A-pillar trim panel (upper part, left side). \Rightarrow Workshop Manual '70571903 Removing and installing A-pillar trim panel (upper part)'
- 1.4.2 Remove and install A-pillar trim panel (lower part). \Rightarrow *Workshop* Manual '70571901 Removing and installing A-pillar trim panel (lower part)'
- Figure 4 (LHD vehicle)
- 1.4.3 Remove dashboard cover (left side):

Loosen fuse box in front left footwell. \Rightarrow Workshop Manual

fuse box in front left footwell'

footwell)

Loosen front headliner, left and center,

Install PORSCHE front camera (dashcam) in the

- Fuse box (front left

- Fuse holder, row D

- Fuse holder, row E

cover (driver's side)'

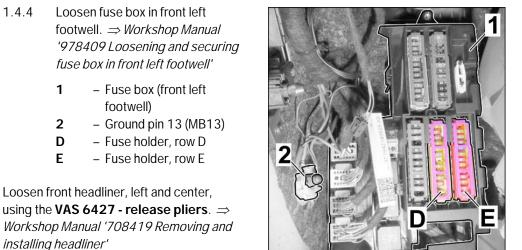




Figure 5 (LHD vehicle)



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Overview of installation position

- 1 Interior mirror
- 2 Installation position of PORSCHE front camera (dashcam)
- **3** Electric wire harness
- 4 Fuse box in footwell (left)
- 5 Ground pin 13 (MB13)
- 2.1 Position front camera (dashcam) to the **LEFT** of the interior mirror on the windscreen

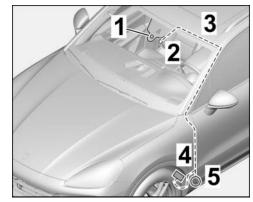


Figure 6

- 2.1.1 Install retainer plate with wire harness on the base of the front camera until the locking mechanism engages (\Rightarrow *Figure 7*).
 - 1 Retainer plate with wire harness
 - **2** Front camera base

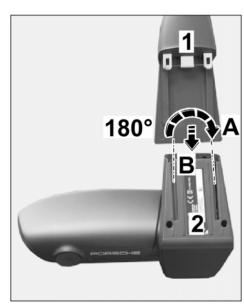


Figure 7

- 2.1.2 Trace the outline of the interior mirror (\Rightarrow *Figure 8*-1-) on the outside of the windscreen using a marking pencil/chalk.
 - 1 Interior mirror base
 - 2 Outline of front camera base
 - 3 Interior mirror
 - 4 Front camera
 - **X** approx. 216 mm/ 8.5 in
 - **Z** approx. 108 mm/ 4.25 in
- 2.1.3 Copy dimensions X and Z on the windscreen (⇒*Figure 8*-top-).

Dimension X = distance from lower edge of outline of front camera base to edge of roof: Length 216 mm +/-5 mm

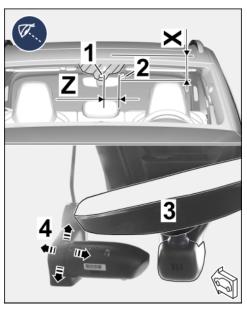


Figure 8

Dimension Z = distance from inner edge of outline of front camera base to inner edge of interior mirror base: Length 108 mm + /-3 mm



Information

Observe the following points during positioning/alignment:

- Sufficient distance between front camera and interior mirror base: at least 5 mm/ 0.2 in!
- Get another person standing in front of the vehicle to check and confirm the horizontal alignment of the camera with the PORSCHE logo!
- 2.1.4 Position front camera with retainer plate in the vehicle at the marking on the windscreen (\Rightarrow *Figure 8* -**Arrows**-).
- 2.1.5 Get another person to trace and shade in the outline of the retainer plate on the outside of the windscreen using a marking pencil/chalk.
- 2.1.6 Clean the inside of the windscreen in the bonding area for the retainer plate (shaded area) to remove any dust and grease.
- 2.2 Install front camera (dashcam) on the windscreen

NOTICE

Adhesive films not prepared/installed correctly

- Damage to adhesive films
- Inadequate adhesion of adhesive films

- ⇒ Carefully clean the areas on which you intend to stick the film to ensure that all traces of oil, grease and silicone are completely removed.
- \Rightarrow Do not touch the bonding surfaces.
- ⇒ Object (adhesive film, vehicle, etc.) and ambient temperature: Minimum temperature 15°C/ 59°F.
 - 2.2.1 Pull 3M privacy film off the backing sheet (\Rightarrow Figure 9).
 - 1 3M privacy film
 - 2 Marked bonding surface
 - **3** Interior mirror base
 - 2.2.2 Position 3M privacy film on the marked bonding surface on the windscreen (\Rightarrow *Figure 9*) and stick it on.
 - 2.2.3 Carefully affix 3M privacy film using a plastic squeegee, starting from the center and moving towards the edge.

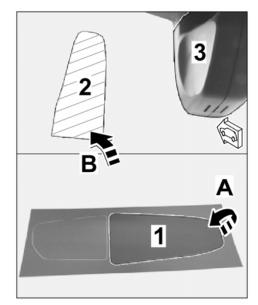


Figure 9

Cayenne (9YA) Installation and Conversion Instructions 15/20 ENU 9163 2.2.4 Pull protective film off the front camera retainer plate (\Rightarrow *Figure* 10-top-). - Protective film 1 2 - Front camera 3 - 3M privacy film 4 - Interior mirror i Ø. Information Observe the following points during positioning/alignment: Sufficient distance between front camera and interior mirror base: at least 5 mm/ 0.2 in!

Get another person standing in front of the vehicle to check

Figure 10

and confirm the horizontal alignment of the camera with the PORSCHE logo!

Align front camera with retainer plate symmetrically with respect to the 3M privacy film (\Rightarrow *Figure 10*-bottom-).

- 2.2.5 Press front camera with retainer plate firmly onto the 3M privacy film on the windscreen.
- 3 Route and connect electric wire harness
 - 1 Interior mirror
 - 2 Installation position of PORSCHE front camera (dashcam)
 - **3** Electric wire harness
 - 4 Fuse box in footwell (left)
 - 5 Ground pin 13 (MB13)

Line routing (\Rightarrow *Figure 11*):

 Front camera → headliner/roof console → along windscreen frame → left A-pillar (top) → along A-pillar → fuse carrier in footwell, left → ground pin 13 (MB13)

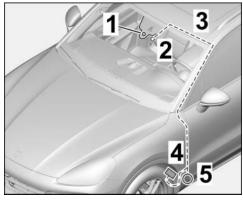


Figure 11



Information

Route electric wire harness along existing wiring, if installed.

Make sure that safety components (airbags, etc.) are still working correctly!

- 3.1 Routing wire harness
 - 3.1.1 On the connector side, push one protective foam roll onto the wire harness for the front camera retainer plate and the (3-wire) wire harness.
 - 1 - Protective foam roll
 - 2 - Wire harness on front camera retainer plate
 - 3 - Wire harness (3-wire)
 - 4 - Branch for 2nd camera
 - 3.1.2 Connect plug connection (3-pin) (\Rightarrow Figure 12-Arrows-).

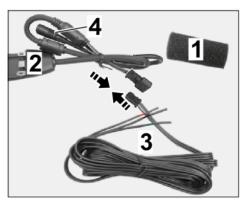


Figure 12

- 3.1.3 Guide wire harness for front camera (dashcam) vertically with respect to the headliner/roof console.
- 3.1.4 Push protective foam roll over the (3-pin) plug connection.
 - 1 - Wire harness for front camera (dashcam)
 - 2 - Protective foam roll
 - 3 - Tie-wrap

Secure (3-pin) plug connection to existing components/lines under the headliner in the roof console area using tie-wraps.

3.1.5 Tie back branch for 2nd camera and secure it to existing components/lines in the roof console area using another protective foam roll (\Rightarrow *Figure 13*).

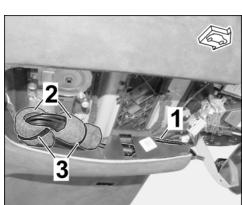


Figure 13

- 3.1.6 Route the rest of the wire harness as follows:
 - 1 Headliner
 - **2** Wire harness (3-wire)
 - 3 Tie-wrap
 - Roof console → under headliner along windscreen frame → left A-pillar (top, if required in the cable duct) → along A-pillar → (⇒ *Figure 14*) → fuse carrier in footwell (left) → BK 0.5² line → ground pin 13 (MB13)
- 3.2 Connect electric wire harness

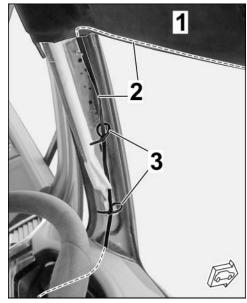


Figure 14

| Function/line: | Connection point – LHD vehicles |
|--|--|
| Ground Terminal 31 = BK; 0.5 ² | Cable ring eyelet A6 (N .017.506.5) on ground pin 13 (MB13, footwell, left A-pillar) |
| Ignition positive Terminal 15 = GN; 0.5 ² | Socket contact, 2.8 x \emptyset 1.0 mm ² (Junior Power Timer N.906.844.01) in slot 6, fuses, row D (D6) |
| Permanent positive Terminal 30 = RD; 0.5 ² | Socket contact, 2.8 x \emptyset 1.0 mm ² (Junior Power Timer N.906.844.01) in slot 3, fuses, row E (E3) |

3.2.1 Open fuse holders in row D and E.

3.2.2 Shorten lines GN; 0.5² and RD; 0.5² to the relevant fuse holders and crimp the relevant contacts.

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- 3.2.3 Connect power supply as shown in the table (\Rightarrow *Figure 15*).
 - 1 Fuse carrier in footwell (left)
 - **2** Wire harness (3-wire)
 - **3** BK; 0.5² line (terminal 31)
 - 4 Ground pin 13 (MB13)
- 3.2.4 Close fuse holders in row D and E and install in the footwell with the fuse carrier. \Rightarrow Workshop Manual '978409 Loosening and securing fuse box in front left footwell'
- 3.2.5 Protect the front camera power supply with new fuses (\Rightarrow Figure 15 -D6 and E3-).

Fuse: Required value 5 A

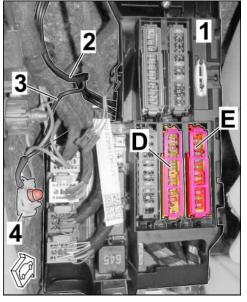


Figure 15

3.2.6 Route line BK; 0.5^2 (terminal 31) to the ground pin 13 (MB13 \Rightarrow Figure 15-4-), shorten it and install it on the ground pin using cable ring eyelet A6.

Tightening torque 9 Nm (6.5 ftlb.)

- 3.3 Secure routed wire harness to existing lines/components in the vehicle with tie-wraps without tensile stress and so that no chafing occurs.
- 4 Concluding work in vehicle interior
 - 4.1 Fasten front headliner at the left and center. ⇒ Workshop Manual '708419 Removing and installing headliner'
 - 4.2 Assemble A-pillar area (left).
 - 4.3 Assemble front roof/(internal) rear-view mirror area.

Tequipment

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Installation and Conversion Instructions

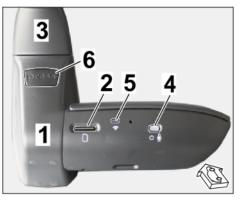
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Coding: Code the PORSCHE front camera (dashcam) in Dealer mode 5

5.1 Preparatory work

1

- PORSCHE front camera
- 2 - Micro SD memory card (32 GB)
- 3 - Retainer plate
- 4 - Power button
- 5 - WiFi status LED display
- PRESS (release button) 6
- 5.1.1 Remove micro SD memory card (32 GB, \Rightarrow Figure 16-2-) from card slot for front camera.





- 5.1.2 With the ignition switched on, push the front camera (dashcam \Rightarrow Figure 16-1-) into the retainer plate on the windscreen (\Rightarrow Figure 16-3-)
- 5.1.3 Press the power button (\Rightarrow Figure 16-4-) for 10 seconds until you hear the second double beeping sound.
- 5.1.4 The front camera (dashcam) starts in Dealer mode: WiFi LED (\Rightarrow Figure 16-5-) lights up "yellow".
- 5.2 Connect the front camera (dashcam) to the device (tablet, smartphone or PC)



Information

The "Dealer mode" network ID name ends with a "D". A password is NOT required!

The language setting can be changed by following the menu prompts after opening the first page.

- 5.2.1 Search available networks for Dealer mode WiFi.
- 5.2.2 Open Dealer mode on the device (tablet, smartphone or PC) using any browser. To do this, enter "192.168.1.1/diagnostics" in the browser's address line.
- 5.2.3 Displays in "Dealer mode" main menu:

Options: (\Rightarrow *Figure 17*)

- 1 Browser's address line
- 2 "Options" menu item



Figure 17

Diagnostics: (\Rightarrow *Figure 18*)

- 1 Browser's address line
- 2 "Diagnostics" menu item
- 5.3 Basic settings for front camera (dashcam) in the "Options" menu item (\Rightarrow *Figure 17*)



Figure 18

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- 5.3.1 Change the default language "English" to the desired language:
 - 1 Default language "English"
 - 2 German

For example: German (\Rightarrow *Figure* 19)

• Up to 19 different languages can be selected.

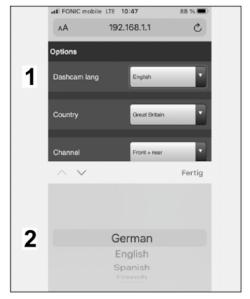


Figure 19



Information

It is **ONLY** possible to select the country for the PORSCHE front camera (dashcam) starting with the serial number "PDF2102*****"!

For cameras with serial numbers "PDF2101*****", the country can be selected directly via the app on the customer's device (smartphone/tablet).

- 5.3.2 Select the country (\Rightarrow *Figure 20*).
 - 1 Serial number of front camera (dashcam)
 - 2 Country
 - **3** Great Britain
 - Up to 48 countries are currently available for selection.
 - The Country selection screen includes, for example: Units of measurement, frequencies and also legal regulations of the respective country.

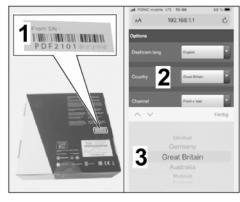


Figure 20

• **Cayenne:** ⇒ Choose Region/State/Country by selecting the appropriate flag.

- 5.3.3 Select the required camera channel $(\Rightarrow$ Figure 21).
 - 1 Channel
 - 2 Front + Rear
 - **TEQUIPMENT:** ⇒ "Front Only" (front camera) is preset.

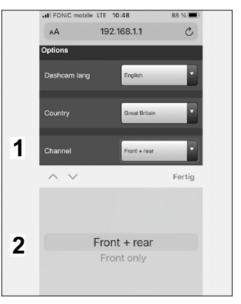


Figure 21



Information

Check which vehicle electrical system battery is installed in the vehicle if necessary by entering the vehicle identification number (VIN) in the Porsche Central Service System (PCSS).

Background: The front camera shuts down if the correct battery voltage (switch-off threshold) is not reached over a period of 5 minutes.

- Switch-off threshold for lead-acid battery (PbAcid) = 11 V
- Switch-off threshold for lithium-ion battery (LiFePO) = 13 V

9

- 5.3.4 Select the battery type (\Rightarrow Figure 22)
 - 1 Battery
 - 2 PbAcid
 - Select the vehicle electrical system battery installed in the vehicle.
 - Cayenne: ⇒ Lead-acid battery (PbAcid) OR ⇒ Lithium-ion battery (LiFePo)

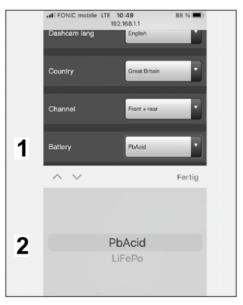


Figure 22

- 5.3.5 Select Park mode (\Rightarrow Figure 23)
 - 1 Park mode
 - **2** Off
 - Depending on the approval for the respective vehicle.
 - **Cayenne:** \Rightarrow Select "On".

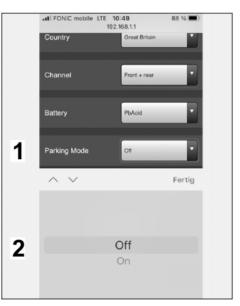


Figure 23

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- 5.3.6 Select the time limit (\Rightarrow Figure 24)
 - 1 Time limit until radar/video is switched off
 - 2 1 hour
 - Turn off radar/video monitoring in Park mode (battery management). After the selected time limit, fast activation of the monitoring system ONLY occurs if the vehicle shakes/vibrates!
 - **Cayenne:** \Rightarrow Skip. Leave the default setting.
- 5.4 Cancel Dealer mode (WiFi LED is still yellow)
 - 5.4.1 Close the browser and switch off ignition.
- Battery PEAcid Parking Mode Off Time limit before turning Thour off Radar/Video Fertig Off 1hour

LTE 10:50 192.168.1.1

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- Figure 24
- 5.4.2 Pull the front camera (dashcam) off the retainer plate by pressing "PRESS" (release button).
- 5.4.3 Insert micro SD memory card (32 GB) in the front camera (dashcam).
- 5.4.4 Install the front camera (dashcam) in the retainer plate.
- 5.5 The settings configured under Step 5.3 are set when the ignition is switched on again.
- 5.6 Format the micro SD memory card (32 GB)
 - 5.6.1 Switch on ignition.
 - 5.6.2 Press the power button quickly 6 times in a row within 3 seconds.
 - Announcements via front camera speaker: "Formatting..." and "Formatting complete."

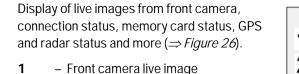
Diagnostics: Perform diagnostics on front camera (dashcam) - ONLY if necessary! 6

Information can be displayed, function tests can be run and results can be stored in the "Diagnostics" menu item.

- 6.1 Information about the model name, hardware and software version, radar and more $(\Rightarrow$ Figure 25).
 - 1 - Model name
 - Hardware version 2
 - 3 - Software version



Figure 25



- Front camera live image
- 2 - Rear camera status (if installed)
- Micro SD memory card contents 3
- 4 - GPS status

6.2

5 - GPS coordinates



Figure 26

Cayenne (9YA)

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- Display of radar status, possible tests for LED lights, loudspeaker and microphone (⇒ Figure 27)
 - 1 Radar status
 - 2 LED Lights test
 - 3 Loudspeaker test
 - 4 Microphone test
- 6.4 The fault report can be stored on the micro SD memory card (32 GB). To do this, use micro SD memory card in Dealer mode and select "Diagnostics" menu item in the front camera.

Installing: 7 Concluding work

7.1 Read out the fault memories of all systems, work through any existing faults and erase the fault memories. *⇒ Workshop Manual*

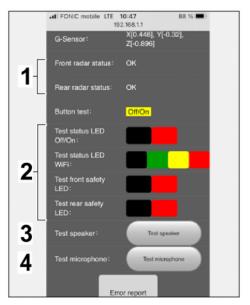


Figure 27

'0X03IN Diagnostic maintenance: diagnostic system and maintenance inter...'

- 7.2 Disconnect the battery charger. ⇒ Workshop Manual '2X00IN Work instructions after disconnecting the battery' or ⇒ Workshop Manual '2X00IN Trickle charging 12-volt lithium-ion battery'
- 7.3 Vehicle handover to customer



Information

Please pass all this information on to the customer.

Also give the customer the PORSCHE dashcam operating instructions.

Also give the first 3 pages of these Installation and Conversion Instructions to the customer.

- 7.3.1 Download the app from the App Store to the customer's device (smartphone/tablet).
- 7.3.2 Select and set Region/State/Country (flag) in the app on the customer's smartphone/tablet.
- 7.3.3 Get the customer to perform firmware update using the app.
- 7.3.4 Format micro SD memory card (32 GB).

Important Notice: Technical Bulletins issued by Porsche Cars North America, Inc. are intended only for use by professional automotive technicians who have attended Porsche service training courses. They are written to inform those technicians of conditions that may occur on some Porsche vehicles, or to provide information that could assist in the proper servicing of a vehicle. Porsche special tools may be necessary in order to perform certain operations identified in these bulletins. Use of tools and procedures other than those Porsche recommends in these bulletins may be detrimental to the safe operation of your vehicle, and may endanger the people working on it. Properly trained Porsche technicians have the equipment, tools, safety instructions, and know-how to do the job properly and safely. Part numbers listed in these bulletins are for reference only. The work procedures updated electronically in the Porsche PIWIS diagnostic and testing device take precedence and, in the event of a discrepancy, the work procedures in the PIWIS Tester are the ones that must be followed.

Tequipment

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Installation and Conversion Instructions

91 63 23 40:

-Retrofitting PORSCHE front camera (dashcam) (1 x) Includes: Installing retainer plate for PORSCHE front camera (dashcam) on windscreen.
 Routing and connecting electric wire harness.

Coding PORSCHE front camera (dashcam) in Dealer mode and

Reading out fault memories and correcting and deleting faults.

formatting micro SD memory card.